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REPORT

OF THE

AGRICULTURAL AND MECHANICAL COLLEGE

OF TEXAS,

at College Station

Located ~~near Bryan~~, Brazos County.



AUSTIN:

E. W. SWINDELLS, STATE PRINTER.

1885.

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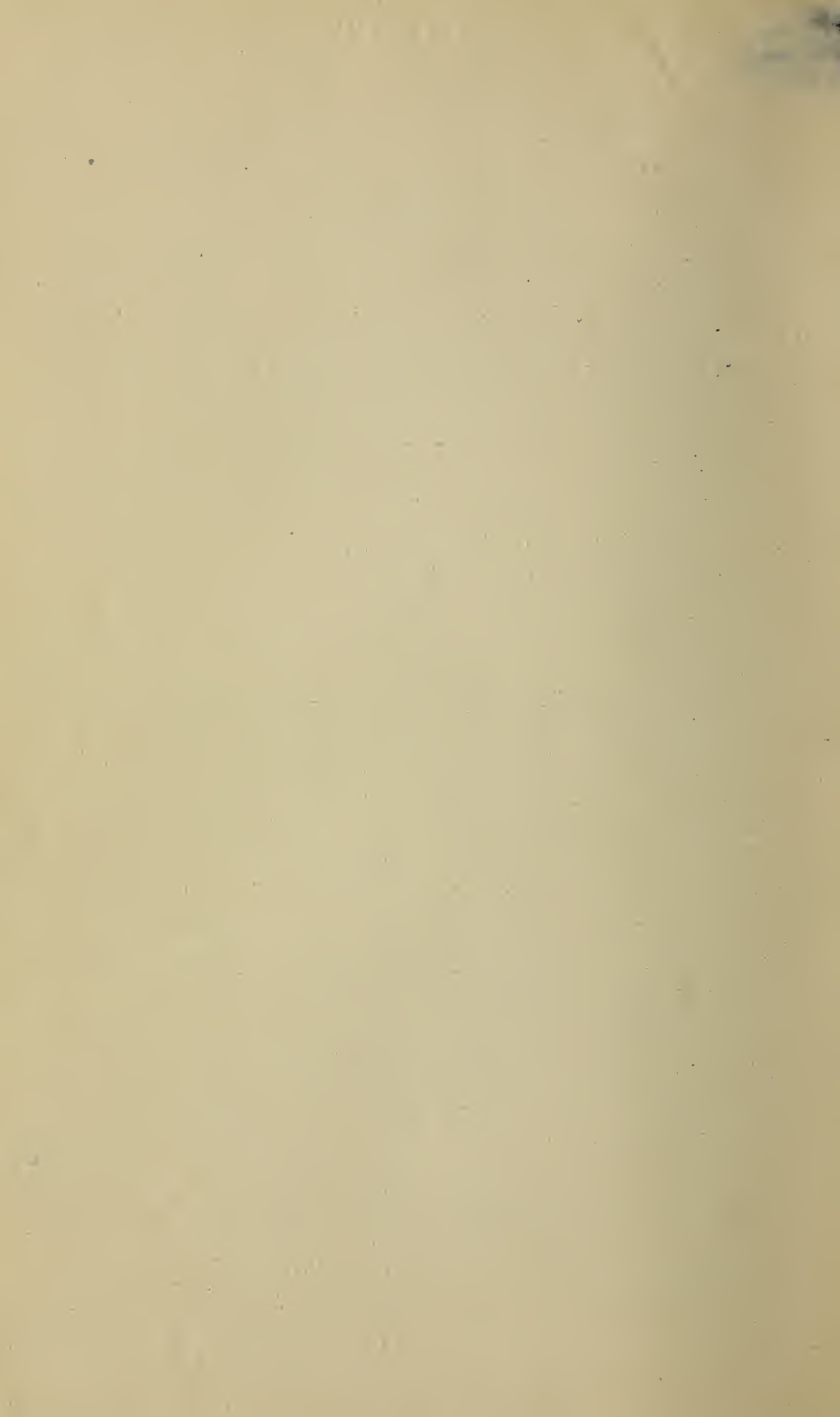
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REPORT OF BOARD OF DIRECTORS.

To his Excellency John Ireland, Governor of Texas:

SIR—At the instance of the Board of Directors of the A. and M. College, I have the honor to submit to you the following report, showing the present condition of the Institution as a technical and scientific school, and its wants in the promotion of its agricultural and mechanical features.

Being convinced of the fact that throughout this vast State, there exists a woeful ignorance as to the true condition of said college and the progress the same has made in the last few years in its agricultural and mechanical departments, and other features of the institute: and that an existing prejudice has been aroused against it by misrepresentation from certain leading papers, as well as denominational institutions of learning in the State, to the injury of the college, I have addressed a series of questions to the different officers and employees of the college in charge of its departments, and the following answer from the Chairman of the Faculty, Professor of the Chair of Agriculture, of Mechanics, of Chemistry, of Mathematics, of Physics, of English and History, of Languages, of Military Science and Tactics, Surgeon, Librarian, Secretary and Agent of the Board, contain all the information desired.

I take it for granted that from a careful perusal of said reports it will be seen the A. and M. College of Texas offers to the young men of this State an education that is practical, not merely in name, but in deed and in truth; and as the people are becoming convinced of the earnest and sincere purpose of the authorities of the school to continue its technical developments, already well advanced, till it reaches its high standard of modern requirements, this prejudice will die out, and the college will, more and more obtaining the confidence of the people, recommend itself to them as worthy of their patronage.

Virtually it has never before received such marked endorsement at the hands of our people as a technical and scientific school than at this session. Although the same opened at a time of unusual financial depression at the end of the season of a failure in crops over a large part of the State, causing scarcity of money, there have already been matriculated one hundred and thirty-seven students, without a single student received at State expense.

The advantages offered by this institution are, that it furnishes its students everything necessary for their maintenance, except clothing

and books, for one hundred and fifty dollars per session; that it offers for the young men of the State an education that is practical and in accordance with the demands of the latest well approved ideas of education; that it offers uncommon facilities for the preservation of good morals among the students, being situated five miles from the nearest town, it presents no convenient immoral resort; its mode of discipline tending to secure regular habits, observance of its rules and regulations, rather by preventives than by punishment.

Its outfit of machinery, stock, agricultural implements, chemical and physical apparatus of the college is perhaps not excelled by any institution of its kind in the South; but it does not equal the Northern schools of technology in this respect, and this should not be so.

Compare the annual income of the Iowa A. and M. College, being forty-five thousand dollars from its land grant in addition to annual appropriation by the State for special purposes, and the cause is apparent. The Mississippi A. and M. College has an income of thirty-two thousand dollars annually from the State, in addition to its endowment from the Federal government.

A technical school is by far more expensive to its managers than an old-fashioned literary college. In fact, the greatest difficulty that is in the way of technical education, in general, is its cost. Men who have been carefully trained in their specialties, and who do not claim to fill any chair, are the only ones who can perform the professors' duties in a technical school; besides there is need for a continual expenditure of money for material used in the work shops and laboratory instructions, for repairs of machinery and apparatus, for the purchase of new appliances as they appear, and for the employment of assistance needed in this kind of teaching.

About eighty per cent of the people of Texas are deeply and directly interested in this kind of teaching; and the wants of the State for educated and practical farmers, scientific and practical mechanics must be supplied by the A. and M. College for some time to come.

To meet the wants of the college, there must be a regular income that can be depended upon from year to year for the purposes mentioned.

The Constitution makes this college a branch of the University, and as such it should receive its pro rata of at least of one-third of the income of the University of Texas.

The income of this college derived from the grant of the United States is by law used solely for paying the salaries of the officers of instructions; it cannot be used for any other purpose, and will not be sufficient to pay the salaries of additional professors suggested and required. The professors of the college are now paid but little more than the University pays its assistant professors.

Very respectfully,

GEORGE PFEUFFER,
President of the Board of Directors.

REPORT OF THE CHAIRMAN OF THE FACULTY.

AGRICULTURAL AND MECHANICAL COLLEGE OF TEXAS,

January 9, 1885.

Hon. George Pfeuffer, President of the Board of Directors Agricultural and Mechanical College of Texas:

SIR—In obedience to your request for detailed information in regard to the affairs of this college, I have the honor to submit the following special report.

Very truly your obedient servant,

H. H. DINWIDDIE,
Chairman of the Faculty.

CHARACTER OF THE COLLEGE.

The act of Congress approved July 2, 1862, defines, it is believed accurately, the present character of this college. Since the reorganization of the institution in November, 1879, the "leading object" has honestly and truly been, "without excluding other scientific and classical studies and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts, in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life." This language is interpreted strictly here. The course of instruction places the sciences bearing directly on the industrial occupations in the greatest prominence; they are rendered practical by application in the fields, workshops and other laboratories. At the same time the classics are not excluded, being provided for by optional courses, and instruction in military tactics is given in the eminently practical way of drill and discipline.

The government of the college is vested in a Board of Directors, consisting of five members appointed by the Governor of the State. Under these the executive work is performed by two classes of officers, the academic and the non-academic. The academic officers constitute the faculty, and are charged with the discipline and instruction of students. The non-academic officers are those charged with the management of the finances, commissary and other ordinary business affairs. The following is a list of these officers:

FACULTY.

H. H. Dinwiddie, Chairman, Professor of Chemistry.
 L. L. McInnis, Vice-Chairman, Professor of Mathematics.
 J. R. Cole, Professor of English and History.
 R. Wipprecht, Professor of Ancient and Modern Languages.
 W. L. Bringham, Professor of Physics.
 G. W. Curtis, Professor of Agriculture, Horticulture, etc.
 R. H. Whitlock, Professor of Engineering, Mechanics and Drawing.
 Lieut. J. S. Mallory, Professor of Military Science, and Commandant.
 R. F. Smith, Assistant in Mathematics.

NON-ACADEMIC OFFICERS.

W. P. Hardeman, Agent of the Board.
 L. L. McInnis, Treasurer.
 J. D. Read, Physician.
 B. Sbis, Steward.
 E. Kellner, Foreman of the Farm.
 A. Harbers, Foreman of the Shops.
 J. S. Fowlkes, Bryan, Fiscal Agent.

DEPARTMENTS.

There are as many departments as there are professors, and the work of these departments is organized into two courses of study, either of which a student may pursue, *one* of which he *must* pursue. These courses are :

FIRST.—The Agricultural, embracing the departments of Agriculture, including Botany, Zoology, Veterinary Science, Horticulture, etc.

Chemistry, with special attention to Agricultural Chemistry.

Physics, with special reference to Meteorology.

Mathematics, with special reference to Surveying and Farm Engineering.

English, including Literature and History.

Military Science, including Drill and Discipline.

SECOND.—The Mechanical, embracing the departments of Mechanics, including Civil and Mechanical Engineering in their various branches.

Mathematics, pure and applied.

Physics.

Chemistry.

English.

Military Science.

In both courses instruction is given by recitations, lectures, and work in the shops, garden, orchard, or laboratories.

Besides these courses, through which (or rather one of which) each

student must pass in order to graduate, there is provided for backward students a

PREPARATORY DEPARTMENT.

In this a limited number of young men who have attained the prescribed age for entrance, but may be somewhat behind in their studies, are taught elementary arithmetic, geography, English and one modern language. No shop-work is required in this class, since it is supposed that its students are too deficient in the beginning of an education to profit by anything which takes time from a mere effort to catch up. During the time of preparatory study the comparatively few boys who are engaged in it are continually thrown with those who are busy in practical application, so that they speedily acquire the industrial sentiment of the school, and are enabled to choose with intelligence the course which they will pursue. It is thought that the preparatory students, having abundant opportunity to weigh well the attractions of the two courses, will choose in most instances without regard to prejudices which may exist away from the college. They will thus not be debarred from entering the agricultural course on account of any ideas they may have received from the antipathy of our common classical schools to anything like manual labor.

PROGRESS OF STUDENTS AND COURSE OF STUDIES IN EACH DEPARTMENT.

On account of the deficiencies of the common school training, the majority of young men who come here are poorly prepared to take up our course; in spite of this, however, the classes have advanced well according to the following schedule :

AGRICULTURAL COURSE—FIRST YEAR.

Mathematics.—Arithmetic reviewed, Algebra completed.

Agricultural.—History and description of breeds of domestic animals, Structural and Systematic Botany; Soils, their Formation, Constituents, etc.

English.—Grammar, History of the United States, Composition, Declamation, etc.

Physics.

Drawing.

Practice.—Farm Carpentry, and Farm, Garden and Orchard Culture.

SECOND YEAR.

Mathematics.—Geometry, Mensuration and Surveying, with field practice.

Agriculture.—Stock-breeding, History of Agriculture, Fertilizers, Field Crops, Tillage, Gardening.

Chemistry.—Theoretical, with laboratory illustrations.
 English.—Rhetoric, Ancient History, Essays and Orations.
 Physics.—Experimental illustrations
 Practice.—Instructive agricultural work.
 Monthly essay.

THIRD YEAR.

Mathematics.—Theory of Equations, Leveling, with practice, Mechanics, Analytical Geometry (optional).
 Agriculture.—Zoology, Entomology, Anatomy and Veterinary Science, Forestry.
 Chemistry.—Qualitative and Quantitative Analysis.
 Physics.—Astronomy, Meteorology.
 Geology.
 English.—Mediæval and Modern History, Literature, Essays and Orations.
 Practice.—Experimental Agriculture.
 Professional and Graduating Thesis.

MECHANICAL COURSE—FIRST YEAR.

Mathematics.—English and Physics, as in the Agricultural Course.
 Drawing.—Mechanical, Geometrical Constructions with instruments.
 Shop-work.—Elementary Constructions in wood with hand tools.
 Practice with wood-working machinery.

SECOND YEAR.

Mathematics.—English and Physics, as in Agricultural Course.
 Engineering.
 Drawing.—Mechanical, Projections of Elementary Machines.
 Shop-work.—Elementary metal working, machine tool-work.
 Monthly essay.
 Chemistry, as in Agricultural Course.

THIRD YEAR.

Mathematics.—As in Agricultural Course, except Analytical Geometry (not optional).
 English.—As in the Agricultural Course.
 Physics.—Astronomy.
 Engineering.
 Drawing.—Designs for machines and structures.
 Shop-work.—Graduation, Construction.
 Professional and Graduation Thesis.
 In both courses instruction is given in Physiology and Hygiene, by the Chairman of the Faculty in weekly lectures.

POST GRADUATE COURSES.

These have been provided for the benefit of students who wish to acquire such technical training as will honestly entitle them to a degree, and are as follows:

For "Bachelor of Scientific Agriculture" (B. S. A.), Advanced Agriculture, Meteorology, Chemistry, one modern language, English.

For "Bachelor of Science" (B. S.), Advanced Agriculture, Mathematics, one modern language, Chemistry, English.

For "Civil Engineer" (C. E.), Advanced Mathematics, Engineering, Mineralogy, Geology, English, one modern language.

For "Mechanical Engineer" (M. E.), Advanced Mechanical Engineering, Mathematics, Physics, English, one modern language.

One student is now pursuing the course for the degree of B. S. A. He is not subjected to military routine, but is allowed his whole time for study and research.

MILITARY FEATURE.

This has given rise to much unfavorable criticism of the college. At the first it undoubtedly was carried to an excess that operated very unfavorably upon the industrial sentiment of the students. This has been completely corrected. The military discipline is now used as a most efficient means of keeping order among students, inducing habits of neatness, promptness and order, and furnishing excellent regular exercise, which is highly beneficial to the boys. Besides, the law of Congress requires that military tactics shall be taught here, and this law must be obeyed or the endowment fund surrendered to the United States government.

DISCIPLINE, RESTRICTIONS AND METHOD OF GOVERNMENT.

The cadets in a great measure govern themselves. By means of the military organization a system of graded responsibility serves to preserve order, and constitutes one of the best known means of training young men in the practice of organization, subordination and command, thus inducing habits of the greatest importance in business. The students are thus at all times under wholesome restrictions, which prepare them to submit without hardship to those restrictions of law and society which will be presented to them as citizens. The immediate effect of the discipline, with the favorable situation of the college, is to keep its students away from all places of immoral influence, to keep them busy in mental and bodily exercises, and thus aid most efficiently to develop the good and repress the bad in their characters.

DAILY ROUTINE.

The following brief view of the daily routine of exercises will give a clear understanding of the methods pursued:

At six o'clock a. m. reveille sounds. Roll call.

At half past six, inspection of rooms, to see that they are swept out and in order.

At seven, breakfast.

At eight, guard mounting; language recitations commence.

At nine, recitations in all departments, with shop-work for some classes, till

At one, dinner.

At two, recitations. Shop, field and laboratory work is thrown as much as possible in the afternoon.

At five, drill, three times a week.

At six, retreat, when orders are published and details made for the next day.

At seven, supper.

At eight, study call.

At three-quarters past nine, tattoo, when all prepare for bed.

At ten, taps, when lights must go out.

The exercises in the shops and other practical work has two hours at a time assigned to it. Recitations consume each one hour. Each student must have three daily recitations, and from six to ten hours per week in the shops and laboratories.

LANGUAGES TAUGHT IN THE COLLEGE, AND THEIR RELATIONS TO PRACTICAL PURPOSES.

Provision is made for thorough instruction in ancient and modern languages, but proficiency in them is not required for graduation. As an optional study a student may take one or more of the following languages: Greek, Latin, German, French, Spanish. It is hardly possible, however, for a boy of ordinary capacity to find time for the study of more than one of these in addition to his regular course. It is presumed that no argument is necessary to point out the great utility of the modern languages, especially the German and Spanish, in a cosmopolitan State like ours. In every part of the State the man of business finds a use for German. In the western part a knowledge of both German and Spanish is almost absolutely necessary for the prosecution of any business, and in the city of San Antonio it is nearly impossible for a salesman to obtain a situation unless he can speak one or both these languages. The ancient languages are not so directly practical, though Latin is studied by a few students on account of its relations to our mother tongue. There is not a student of Greek in the college. The

great value of German technical literature, especially in chemistry, renders a knowledge of that language of especial value to the student who expects to pursue any of the avocations involving advanced science.

SUCCESS OF THE COLLEGE IN INDUCING A PUBLIC SENTIMENT IN FAVOR OF INDUSTRIAL EDUCATION, AND ESPECIALLY AMONG ITS OWN STUDENTS AND GRADUATES.

There is so strong a movement in favor of industrial education all over the world, that it is quite impossible to say what part any one agency has had in producing the present general demand for this kind of instruction. In England, which certainly claims pre-eminence as a stronghold of even obstructive conservatism in educational and many other matters, the labors of such profound philosophers as Spencer and Huxley have reformed the school instruction to a remarkable degree. In fact, the friends of technical training in England have been assisted by the course of events in the manufactures of that country. Some years ago it began to be apparent that the sale of carpets and other fabrics whose manufacture called for artistic designing was falling off in England and increasing on the continent. A formal investigation showed conclusively that the superiority of the continental manufactures was directly traceable to the influence of industrial schools, and that unless England proceeded without delay to establish schools for the artistic training of her young carpet designers and other skilled workmen, her prestige in manufactures would rapidly be a tradition merely. Perhaps there was never a more startling, imperative and effective appeal for reform addressed to any people. The great body of capitalists whose revenues were slipping away day by day saw the evil and its remedy. The heavy old conservative, who would have kept every English lad consuming years of his best time in making nonsensical Latin and Greek verses, simply because his fathers did so, was for once pushed impatiently aside by men who had no time to waste in words. Industrial schools were put in operation as speedily as possible, and have to this time continued to grow in number and importance. And they have fully vindicated the sagacity of their founders by restoring the prestige of English manufactures. Our own country, in its older States, has to a still greater degree shown appreciation of industrial education, and perhaps to a greater degree also felt the value of it. While, therefore, the public sentiment of our State must ultimately be carried with this great tide of educational reform, it is believed that this college is now leading on this reform in our own State.

To show the influence of this college in turning away its students to practical pursuits instead of to the law, the following list of occupations of graduates is given. This embraces only those who have taken degrees or who have graduated under the present curriculum. Some of

these young men entered the college while it was a literary institution strictly. It is not fair to include them under the number of those who have been subjected to the present influences of the school. Two out of the three who are now lawyers belong to this class.

There have been altogether thirty-seven graduates. Of these there are: Farmers, 2; horticulturist, 1; surveyors, 3; railroad engineer, 1; compress manager, 1; locomotive engineer, 1; architect, 1; lumber dealers, 2; woolen miller, 1; merchants and clerks, 5; teachers, 4; physician, 1; science students, 2; law students in university, 3; lawyers, 3; unknown, 6.

When we reflect that but a few years have elapsed since to go to college meant to enter upon preparation for the practice of law or medicine, or for professional or amateur authorship, it certainly proves the strong industrial sentiment of this college, that it has sent only three out of thirty-seven so far as is known into the profession of law. The single graduate who has entered the profession of medicine may be claimed as the legitimate fruit of such a school as this ought to be, since that profession is pre-eminently one which demands scientific and manual training of the highest order.

It is surely now quite clear that we may answer satisfactorily the question,

HAS THE COLLEGE ACCOMPLISHED WHAT IT WAS INTENDED FOR?

It has really been in existence as an agricultural and mechanical college only for five years. In this time it has succeeded in filling its accommodation with young men who come here with the understanding distinctly announced in the catalogue and circulars that the instruction of this school is intended to prepare them for industrial pursuits only.

As the number of young men coming here under this understanding has steadily increased since a knowledge of the true character of the school has spread abroad over the State, it may be concluded without a doubt that there is

A STEADY INCREASE OF DEMAND FOR AGRICULTURAL INFORMATION AND TRAINING OF THE YOUNG MEN OF TEXAS IN AGRICULTURE AND MECHANICS.

If further proof of this be demanded, the strong resolution of the State Grange, passed with unanimity at the meeting in Galveston last August, will settle this question so far as the sentiments of the great majority of the farmers are concerned. These resolutions set forth the confidence of the farmers in the present management of the college, and commend it in the highest terms to the farmers and mechanics of the State. A committee was appointed to memorialize the Legislature of the State at its nineteenth session to set apart from the University fund the

full proportion which should come to this college as a branch than which no other could be more important. Still further evidence of the demand for the services of this institution is found in the frequent allusions of our newspapers to the necessity of providing facilities for the industrial education of our boys. Five years ago, when this college was really a literary institution, neglecting almost wholly the sciences and arts whose advancement was implied in its name, the newspapers of the State were almost unanimous in their hostility to it. Now the press is with similar unanimity friendly to the institution. Thus every evidence of public sentiment that is attainable declares that the people appreciate the value of industrial education, and are determined to have it. And the profound change of sentiment in regard to this school proves that they are satisfied that the work being done here is such as they expect.

The question naturally arises, "How has this great change been brought about?" The answer is easy. Not only has the college been made what it claims to be, but the confidence of the farmers has been directly sought by officers of the college, who have visited meetings of farmers, and presented it to them by addresses and conversations.

During the last summer the Chairman of the Faculty and the Professor of Agriculture were invited to address large assemblages of the leading farmers of our State. They did so, and met with most cordial receptions, and were listened to with the closest attention. Indeed, they were immediately invited to visit numerous places in the country, and to have accepted these invitations would have brought them into almost every neighborhood in the thickly settled part of the State; but the opening of the session prevented this. The Chairman of the Faculty met the State Grange at Galveston in August, and, after addressing that body, received the most gratifying assurances of their hearty support of the college. This pledge has been fulfilled by the entrance of several students, whose presence here is directly traceable to the influence of the Grange, and of others who come from the strongholds of that organization. It is thus abundantly demonstrated that the farmers have not been indifferent to the new education, but might long ago have given their warm support to the college had they been assured that the agricultural feature was something more than a mere pretense to secure the endowment and catch their influence.

RELATIONS OF THIS COLLEGE TO THE OTHER BRANCHES OF THE STATE UNIVERSITY.

The adoption of the State Constitution made this college a branch of the University. As, however, it was in operation seven years before the opening of the literary and legal branches at Austin, it has remained under a separate administration from that of the other branches.

The question has arisen whether it would be to the interest of the

State to bring these branches together in any way. So far as connecting this college with the literary branch is concerned, the experience of those who have had occasion to study and observe such matters, gives a most unqualified and unhesitating answer. It is, that the attempt to carry on literary and agricultural instruction in the same institution, has, without a single well-marked exception, resulted most disastrously to the technical course. The literary has always overshadowed it. So well is this recognized as an established principle, that there are only two or three of the States that attempt to unite their literary and industrial schools in the same institution. And it is true that those agricultural colleges that have in any degree proven successful are entirely separate from literary schools. The latest recognition of these facts comes from our neighboring State of Louisiana. The State Grange of that State has recently reported that the Agricultural and Mechanical College of Louisiana is a failure. And not only is it so, but it is the opinion of the Grange that it cannot be anything else so long as it is a part of the State University in its location and administration. The Grange therefore demands, in the interest of the farmers and mechanics of Louisiana, that the Agricultural and Mechanical College shall be removed from the University and placed under separate administration. The State of Kentucky has found it necessary, after several years of trial, to separate its Agricultural and Mechanical College from its University. The disastrous experience of this college in its attempts to furnish a thorough literary training should be a warning against ever again placing our agricultural and mechanical courses in such close relations with literary curricula. This is not the place to explain at length the reasons for antagonism between the two kinds of instruction, but there is ample proof that it does exist, and any attempt to attach this college to the other branches of the University, as a mere course under the same administration, would be a retrogressive movement, and would practically destroy this school.

But while there should be no change that would thus subordinate this branch to the others, it should be remembered that this college is really a branch of the University, and as such entitled to its full proportion of the University fund. That this proportion is large, must appear from these facts: That this is the institution to which the farmers' and mechanics' sons must look for an education, not only because it alone trains them for their life work, but because it furnishes its benefits at about one-half the cost of maintenance of students at the other branches of the University. It is estimated that about sixty-seven per cent of the people of this State are engaged in agricultural pursuits, to say nothing of the mechanics, and surely the institution which exists for the benefit of so large a class of our people directly, and for the benefit of the whole State indirectly, should have no difficulty in establishing its claims to the

most liberal concessions in the apportionment of the University fund. One-third of that fund seems but a very moderate allotment to such important interest as are those represented by this college. The endowment derived from the United States grant, amounting to \$14,280, is available by the terms of its gift only for the payment of the salaries of the officers of the institution. It is all consumed at present for this purpose. But a technical school requires a certain fund for current expenses not known to the work of a literary college. The wear and tear of machinery, the purchase of new and often expensive pieces of apparatus, the consumption of timber, iron, brass, fuel, chemicals, oils and other materials used in the shops and laboratories, all call for the continual expenditure of money. There may be some return for this, especially in the agricultural department, but the profit of most of the work done here will go to the intelligent farmer, who may be benefited by the more or less costly experiments, which he has a right to expect that this college will perform for him. In proportion, as technical education is more immediately valuable, so is it more expensive than any other kind, and this college can never meet the requirements of its work till it has a regular income for other expenses than the pay of its officers.

DEPARTMENT OF BIOLOGY.

There is now no separate professor of botany, zoology and entomology. The professor of agriculture is required to give instruction in these important subjects. That one man can find time to give full courses in all these, in addition to agriculture, horticulture and veterinary science, is impossible, and yet every one of these subjects is of prime importance to the farmer. The establishment of this department depends upon the assignment to this college of its University fund, and is one of the purposes for which it is urgently needed.

STATE STUDENTS.

For the session ending 1884 and the present one, there have been no State students, as required by law, because the Eighteenth Legislature omitted to make an appropriation for their support. It was well that this was so. The plan of sending students to this school at the expense of the State, was adopted because the industrial courses at first seemed unpopular, and it was supposed that extraordinary inducements were necessary to lead young men into what seemed to be regarded as an educational experiment. The truth was, as it now appears, that the college had been known only as a literary school, and patronized by those who desired a literary education. When it was re-organized it lost its literary patronage, without at once gaining the support of the great number of those who were desirous of receiving industrial training, but were naturally skeptical concerning the reform of this college. But now it

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has been shown that the college is at last beyond the need of such artificial means of attracting students. Indeed, the sending of State students here at this time, would be a serious disadvantage to the institution and a waste of public money, for the following reasons :

1. The students who pay their own expenses here come because this is an industrial school ; they have a definite object in view, and are in full sympathy with the objects of the course. State students, on the other hand, often accept the bounty of the State, with the view of obtaining a literary education, and with the deliberate intention, it is believed, of avoiding everything in the course that does not tend to the furtherance of their wishes in this respect. Such students, when sent here in considerable numbers, create a public sentiment hostile to the proper work of the institution, and seriously embarrass the efforts of those who are responsible for the character of the instruction.

2. The college is now comfortably full of students, and but for the stress of financial matters in the country, would undoubtedly be crowded. To send State students here now would be to exclude the larger part of those who value the advantages of the college sufficiently to pay for them, and this exclusion of those who constitute the best material for our training would often be in favor of young men who neither need nor appreciate the benefaction. If, however, to avoid the exclusion of any one, the construction of new buildings be thought advisable, it will probably be thought that the following is conclusive:

3. To erect new buildings to accommodate ninety-three State students, to furnish them, to add mess hall and section room accommodations which they would require, would take not less than \$15,000. Besides, additional instructors would have to be provided, and more material of all sorts used. This would require at least \$2500 more. The expenses of ninety-three students for two sessions, at \$150 each session for each student, would amount to \$27,900, and this gives in round numbers the sum of \$45,000 as the amount which would have to be appropriated by the Nineteenth Legislature to meet the requirements of the present law, and not at the same time exclude from the college those who are willing to pay for its advantages. This money would not benefit the college, but would simply be a free gift to ninety-three young men who might be fortunate enough to secure appointments.

PRESENT CAPACITY OF ACCOMMODATIONS.

The college can now accommodate comfortably not more than 150 students; 133 have matriculated this session. It thus appears that there has been little spare room. At one time in the history of the college there were as many as 300 students here, but they were crowded together, regardless of health and comfort, and besides used as dormi-

tories two wooden temporary buildings, one of which is now used as a shop and the other of which is no longer fit for occupation by students.

CONDITION OF BUILDINGS, ETC.

As the Chairman of the Faculty is held responsible for the care of the cadet quarters, it is proper to note here that the practice of defacing the walls of the buildings by pencil marking has ceased, and the equipments of the institution, so far as they are in charge of the chairman, are in good condition.

EXPERIMENTAL WORK.

During the last session, this was commenced and two bulletins published. The students took part in it, and were deeply interested in it. It has attracted the attention of farmers, and there are indications that it is stimulating experimental research among them. It is extremely desirable that this feature of the institution should be developed till this becomes a State experimental station, such as many States have established, to the great benefit of their agriculture. The addition of two or three assistants to the professors in charge of this kind of work would accomplish this desirable end without great expense, since the costly appliances required by such a station are already, in a large part, here.

REQUISITES OF ADMISSION.

To enter the college, an applicant must be in his sixteenth year, or at least must have attained a degree of physical and mental advancement corresponding to that age. He must be free from contagious or infectious disease, or any deformity or defect that would unfit him for the performance of his duties as a student of the college. He may be required to furnish evidence that he has not been dismissed from another institution of learning, and that his moral character is good. He must possess a fair knowledge of arithmetic as far as proportions, of descriptive geography and of elementary English grammar and composition.

COMPLETE ESTIMATE OF EXPENSES FOR NINE MONTHS :

Matriculation fee.....	\$15 00
Physician's fee.....	5 00
First quarter, board, lights, fuel, washing, rooms.....	32 50
Second quarter—board, lights, fuel, washing, rooms.....	32 50
Third quarter—board, lights, fuel, washing, rooms.....	32 50
Fourth quarter—board, lights, fuel, washing, rooms.....	32 50
Total.....	<hr/> \$150 00

A deposit of \$5 is made to cover damages to the public property; if not used through the fault of students, this is returned.

The college furnishes bedsteads, mattresses, pillows, tables, washstands, chairs, wardrobes, lamps, buckets, basins and slop cans, free of cost, to the student. The uniform costs from \$15 to \$20, depending upon the size, and whether vest is furnished or not. Books and stationery cost about \$6 or \$8.

HEALTH OF STUDENTS.

This has always been good, except when pneumonia has prevailed or measles has been epidemic. There is ample proof that this is a remarkably healthy place, in spite of a strong prejudice to the contrary among those who do not know that the buildings and grounds are situated on high rolling lands that furnish no conditions favorable to malarial sickness.

Reference is made to the reports of the physician for fuller accounts of this matter, and to those of the several departments for full statements of the progress and needs of the same.

In conclusion, the chairman feels that the present condition of the college is such as to highly gratify its friends, and the friends of industrial education everywhere. There can never again arise any doubt as to the wishes of the public in regard to the strict adherence of this institution to its technical work, and by the continued hearty co-operation of its directors and faculty, with the approval and support of the people, it is believed that this steady advance will soon bring this college to the front rank of those which are doing a similar work in all the States.

ROLL OF STUDENTS BY COUNTIES, ENTERED DURING THE YEARS 1883 AND 1884.

ARANSAS.

1883.
T. E. Mathis.

1884.
W. P. Terry,
A. Benham,
S. J. Seymour,
J. W. Atkinson.

AUSTIN.

B. E. Knolle,
T. N. Reneau,
F. H. Whitfield,
A. L. Holland.

O. Kellner,
J. F. Armstrong,
A. L. Holland,
T. W. Stone,
E. R. Knolle.

BEXAR.

R. B. Green,
C. F. de Ganahl.

B. P. Stedman,
M. Bustamente,
F. M. Hummel.

BELL.

B. C. Mackensen,
W. A. Breeding,
L. Mackensen.

J. L. Maedgen,
L. Mackensen,
A. L. Flint,
H. A. Stacy.

BOWIE.

W. Whitaker,
W. H. H. Moores.

M. D. Tilson,
W. Whitaker.

BOSQUE.

S. J. Caruthers.

BURLESON.

J. F. Grant,
C. A. Davis.

BRAZOS.

E. Rubenstein,
W. Wipprecht,
J. G. Chatham,
J. J. Willman,
J. R. Asten,
G. S. Parker,
J. Newsom,
T. B. McQueen,
W. B. Philpott,
J. H. Jones,
E. H. Whitlock.

H. G. Rhodes,
W. Wipprecht,
C. B. Stillwell,
E. H. Whitlock.

BRAZORIA.

C. E. Giesecke,
D. Adriance.

D. Adriance,
J. T. Hoskins.

CASS.

1883.

1884.
C. C. Galloway,
M. M. Pruitt.

CALDWELL.

W. C. McLelland.

COLLIN.

A. L. Sherley,
W. J. Graves,
B. E. Throckmorton,
C. Stiff.

B. E. Throckmorton.

COLEMAN.

F. E. Dudley.

E. C. Perry,
F. E. Dudley.

COMAL.

F. L. Pfeuffer,
G. Giesecke,
E. Giesecke.

F. L. Pfeuffer,
E. Giesecke,
E. Gruene,
T. Tolle.

CONCHO.

W. R. Blanchard.

COLORADO.

F. B. West.

DALLAS.

C. Lantz,
R. M. Rutherford,
W. C. Akard,
W. M. Rutherford.

H. G. Caldwell,
C. L. Knowles,
R. M. Rutherford,
J. B. Hereford,
E. T. Overand,
C. C. Baldwin.

DE WITT.

H. Richter,
W. R. Eckhardt,
C. L. Burghard,
A. H. Bree.

H. Richter,
W. R. Eckhardt,
C. L. Burghard,
I. A. Cottingham,
H. C. von Roeder,
C. W. Fechner.

DENTON.

W. F. Woodward.

W. F. Woodward.

DUVAL.

J. F. Gravis.

Roll of students by counties—continued.

ELLIS.		HOWARD.	
1883.	1884.	1883.	1884.
J. C. Farley.	R. G. High, J. W. Carson, J. M. Carson, W. R. Pierce.		F. B. Heyn.
FALLS.		HARRIS.	
F. Goodrich, T. A. Stuart, W. A. Lang, Z. W. Bartlett.	F. Goodrich, T. A. Stuart, W. A. Lang, Z. W. Bartlett, H. G. Carter, L. E. Allen, F. W. Stallworth, A. O. Barclay.	C. A. de Freese, C. H. Pescay, J. G. McMeever, E. H. Dumble, R. L. Baker.	C. A. de Freese, C. H. Pescay, J. G. McKeever, R. Burns.
FAYETTE.		HILL.	
S. Hough, E. L. McKinnon.	S. Hough, J. Krenek, B. W. Bristow.	J. C. Kirksey.	W. A. Jackson, J. W. Harris, H. C. Jackson.
FREESTONE.		JEFFERSON.	
F. Caruthers.	F. Caruthers.	H. C. Smyth.	
FRIO.		JONES.	
	J. L. Nelson, E. F. Cockrell, H. L. Johnson.	V. Andrews.	
FORT BEND.		JASPER.	
W. J. Chambers.	W. J. Chambers, J. B. Herndon, E. A. Piereson.	E. A. Seale.	A. A. Snell.
GUADALUPE.		LIMESTONE.	
H. A. McCulloch.	H. A. McCulloch, J. H. Freeman, E. Nolte.	H. L. Gibbs.	
GRIMES.		LAMPASAS.	
H. B. Stoneham, J. C. Baker, J. A. Baker, G. C. Stoneham.	J. C. Baker, J. A. Baker, G. C. Stoneham.		J. D. Graham, M. L. Witcher, J. B. Moore.
GALVESTON.		KENDALL.	
T. McDonald.	J. H. Butcher, E. W. Johnson.		R. Flach, F. Flach.
GRAYSON.		M'LENNAN.	
S. J. Hernstadt, A. M. Crooks.	S. Nelson, C. A. Lyon, H. C. Hare.		W. L. Connolly.
GONZALES.		MARION.	
	T. A. Reese.	T. D. Rowell, W. P. Watson.	T. D. Rowell, G. A. Rogers.
HARRISON.		MONTAGUE.	
C. G. Lancaster, T. D. Sedberry.		G. D. Williams, C. R. Williams.	
HOPKINS.		MILAM.	
S. B. Callahan.		J. E. Tyson, J. E. Murfee.	
		NAVARRO.	
		G. Selman, J. Owen.	
		NUECES.	
		E. R. Dove, H. L. Wright.	H. L. Wright.

Roll of students by counties—continued.

ORANGE.

1883. 1884.
W. D. Bettis.

PARKER.

G. W. Roach.

PECOS.

L. L. Barlow.

ROBERTSON.

J. N. Davis. C. C. McLendon,
J. N. Davis.

RUSK.

I. Lawler. D. M. Boles,
W. Y. Garrison,
J. H. Rainbolt.

SAN JACINTO.

P. H. Robinson.

TRAVIS.

F. C. von Rosenberg, G. S. Beaty,
N. A. Dawson. J. O. Cash,
J. O. Cash, D. J. Brady,
B. H. Hollingsworth, F. W. Moore.
D. J. Brady.

TARRANT.

C. W. Johnson,
J. L. Loving,
H. Wilson,
H. L. Oldham,
A. G. Childress.

TOM GREEN.

J. W. Miles.

TAYLOR.

J. T. Parker. J. T. Parker,
J. W. Oglesby,
A. L. Camp.

TRINITY.

H. L. Robb.

UVALDE.

J. W. Oglesby.

VAN ZANDT.

S. T. Torbett.

VICTORIA.

G. W. Johnson.

WASHINGTON.

R. E. Pennington, F. W. Hewitt,
J. L. Gray, J. H. Williams,
E. W. Spann, E. W. Spann,
E. Muse, S. H. Williams,
S. H. Williams. R. R. Roff.

WALLER.

L. Schwartz. P. P. Petty,
M. C. Sterling,
W. J. Sterling.

WEBB.

W. R. Whitall,
W. G. F. Handel.

WOOD.

R. H. Bruce.

WISE.

S. J. Cundiff.

STATE OF MISSISSIPPI.

E. B. Lowry. E. B. Lowry.

RESIGNED AND DISMISSED.

During the session of 1883-84.

Resigned..... 15 Dropped from rolls.....11
Dismissed..... 8

During the session of 1884-85.

Resigned..... 8 Dropped from rolls..... 1
Dismissed 7

REPORT OF DEPARTMENT OF AGRICULTURE AND HORTICULTURE.

Hon. George Pfeuffer, President Board Directors A. and M. College of Texas:

SIR—In accordance with your request, as transmitted through the Chairman of the Faculty, I respectfully submit the following report.

Property on hand January 1, 1885, as per inventory on file in Treasurer's office:

Work $\frac{3}{4}$ imals, cash value.....	\$730 00
Balance of farm stock.....	3,540 00
Farm implements, tools and machinery.....	1,384 60
Farm produce, hay, corn and oats.....	638 00
Total.....	\$6,292 60

Also, in permanent improvements, which have been made since the last General Assembly:

Fencing at a cost of....	\$2,830 00
Two large tanks at a cost of.....	320 00
Windmills and piping for water supply at a cost of.....	500 00
Large barn for machinery, fine stock and hay or fodder....	2,000 00
Cowshed for dairy purposes.....	1,090 00

Making a total of... \$6,740 00

Invested in permanent improvements for Department of Agriculture and Horticulture since January, 1883. As illustrating the needs of the department, I may here specify that of this amount which I have apportioned out among the various accounts as shown above :

There was paid to boarding department from June to January, for board of men.....	\$455 50
For labor of farm hands.....	436 10
For student labor.....	20 70

Making a total of..... \$912 30

As shown against the department on Treasurer's books for the six and one-half months since June 15, 1884, for necessary labor.

I have found it necessary to divide the work, putting one man as gardener and orchardist, and another as foreman of farm and stockman.

When we consider the knowledge necessary to the positions named, we see how utterly impracticable it would be to attempt to find, combined in one man, the requisites necessary for a successful gardener, fruit and arbor culturist, and manager of men and stock. We realize, further, that to *retain* competent men for such positions, we must pay a reasonable salary.

The foreman of the farm must be a man who has some idea of experimental work, who is a careful and competent man with stock, and who has enough of natural tact to be able to manage men to the best advantage. The gardener and orchardist must be a man who is master of all the varied operations connected with the culture and propagation of all kinds of fruits, shrubs and vegetables.

Such men can be secured at a salary of \$400 each.

I have found it of great consequence, and would respectfully recommend that a good teamster be secured by the year. Such a man could be obtained for \$20 per month, or \$240 per year, and board. With ordinary men who throng the country seeking work at from \$12 to \$15 per month, there is more loss by careless, indifferent work and ill-condition of work animals, through *ignorant* or *vicious* treatment, than would pay for the extra wages of a good man.

For such other men as are needed, places can be filled at from \$12 to \$18 per month.

While speaking of the labor pertaining to the Department of Agriculture and Horticulture, it may be considered proper to refer to the duties of the professor in charge:

In addition to the two departments, which the name of the chair indicates, he has also to take charge of and instruct in, as best he may the Departments of Botany, Zoology, Entomology and Veterinary Science, including anatomy and medicine. As professor in charge of the department, Agriculture and Horticulture, I have endeavored to perform as much of this extra work as my *ability* and *time* would admit. I may safely assume that no man can be a *specialist* in each one of some half dozen different lines of work, and I frankly admit that I am no exception to the rule.

We sadly need a *chair of biology*. As a technical institution we ought to give prominence to those branches which make up the body plan of industrial education. By establishing a chair of biology (or natural science), and giving to the department of Agriculture and Horticulture a foreman in each of its branches, we shall be enabled to push forward with redoubled effect.

In response to the query, "Has the college accomplished what it was intended for?" I desire to say much more than limited time for prepar-

ing this report will admit. The steady increase of the demand for educated men in the daily walks of life cannot be filled or even kept pace with in the few years that have elapsed since the Agricultural and Mechanical College was changed to the real and proper basis from what was, in effect, a literary and military academy.

We are slowly, but surely, attaining the proper basis for effective work in the direction of agricultural industry; but we can by no means rest quietly in the midst of our labors and say we have accomplished what the college was intended for.

The department of Mechanics, with its able professor in charge, needs no urging to be recognized as rapidly and certainly accomplishing its object. The department of Agriculture, while struggling against many prejudices, and meeting many obstacles, is still making *gratifying progress*. I believe I may say that our course is meeting with the approval of the most intelligent farmers and stockmen in the State.

The action of the State Grange is one of the expressions of their approval, and students coming in from the sections where the college has been represented in its proper light, give a still more settled proof of the appreciation of the farming community for the course pursued by the college.

It has been a main effort since assuming my duties here to raise the standard of the agricultural course, and make it attractive as well as of practical value, thereby hoping to bring it into greater favor with students.

Last year, 1884, there were graduated from the course in agricultural sciences three students.

Of the three, one is this year taking a *post graduate* course in the department, pursuing the studies of structural and economic botany, veterinary medicine, agricultural chemistry, and incidental studies.

There are in the first, or senior class, two members, one of whom expresses the settled determination to engage in stock farming immediately on receiving his diploma.

In the second class there are five members, and in the third class there are nine members. Students in the preparatory class are not allowed to register for either course until one year has been passed at the college, and a satisfactory examination has proven them competent to enter the third class; hence cannot tell how many of the preparatory class may be counted in the Agricultural Department.

When Congress passed the bill granting 180,000 acres of land to Texas for the establishment and maintenance of a college for agriculture and the mechanic arts, it was undoubtedly understood that the instruction to be given under the act was to be eminently practical; such as would bring the college in harmony with the great industrial classes of our State. We may assert with *certainty*, that in thus far has the college carried out

to the letter the line of work for which it was designed. Every study passed under review during the entire course is so taught as to bring out all that is practical, and make the concrete of paramount importance.

Lectures on stock are supplemented by examination of representatives of different breeds, and judgment is aided by actual estimates and markings for individual animals. Rations are computed by the students, and tested by actual feeding, giving a practical knowledge of *what to feed, when to feed, and how much to feed* for different purposes.

In the study of horticulture, actual work, and proficiency in it, is made a part of the student's examination. Management of trees for fruit or shelter, grafting, budding, inarching, pruning, making hot beds, and, indeed, all the various and sundry operations connected with the study, making it of prime importance to our students.

Botany and entomology are so considered as to leave no doubt of their practical value; and veterinary medicine and anatomy (a knowledge of which has come to be almost a necessity for every stockman) is given prominence due.

Believing that a thorough knowledge of business system is essential to success in whatever branch of business our students may engage, I have, this year for the first time, introduced the study and practice of book-keeping for the second class. I am pleased to state that I have every reason to be gratified with results thus far; and that I believe its introduction has done, and will yet do, much to equalize the two courses in favor with our students.

I desire to call your attention to the fact that the people of the State have a right to expect from the college a thorough investigation of the many problems pertaining to the soil, and the growing and feeding of crops.

I am in receipt of numerous letters seeking information on topics, answers to which can only be obtained by experimentation. It is right that we should do this for the people of the State. We can, by means of money, carry out many experiments too expensive for the farmer to undertake, and, by publishing results in our bulletins, give the benefits to all; but in order to do this, we must have money and time, and our funds must be made *certain* and *annual*. We cannot afford to start long and expensive experiments, and find ourselves without funds with which to complete them.

The people of the State are to receive the benefit—they should be willing to give the needed support, by which we shall be placed in a position to perform valuable work, not only for our students, but for the people of our State.

As to the needs of the department, first and foremost, provision for payment of necessary labor, as set forth in first part of report.

Second—A piggyery. As our stock of hogs becomes more numerous and

valuable, and more attention is paid to breeding pure blood of the different strains, we feel the imperative need for a suitable building, to be divided into apartments for brood sows, apartments for weaning pigs, apartments for keeping separate the various breeds kept, and for keeping and preparing the food used—all combined in a substantial and neat manner, at a cost not exceeding \$1200.

Third—We need an additional appropriation for fine stock. During the fall of 1884 I negotiated for, and have secured, four head of registered Dutch Fresian cattle, one male and three females; and three head of registered Galoway cattle, one male and two females; the animals secured being undoubtedly as fine as can be found in the west. We have also represented the Essex and the Berkshire breeds of hogs. We *should* have at least representative animals of other breeds, that they may be used, not only for instruction, but also for testing the comparative value of each for different purposes. It may be deemed advisable to increase our stock of pure bred cattle gradually, in order that we may keep pace with increased numbers by supplying increased facilities. I would recommend, therefore, that for the present \$2000 be appropriated for this purpose.

Fourth—We need an appropriation for testing the practical value of the method of ensilage, and for various expenses connected with experimental work. I would recommend for this purpose an annual appropriation of \$800.

Fifth—We need an annual fund for current repairs and improvements that are inevitably necessary and suggested by the conditions of progress, such as keeping up fences, repairing buildings, tanks, farm implements, etc. For this purpose we should have an annual amount of \$600.

Sixth—We need a building for instruction in the art of making butter, a sub-earth-duct being perhaps the most economical plan for same. Cost of above, including necessary fixtures, \$1500.

Respectfully submitted.

GEORGE W. CURTIS,
Department of Agriculture and Horticulture.

REPORT OF THE DEPARTMENT OF MECHANICAL ENGINEERING AND DRAWING.

The mechanical course of study in this college is intended to embrace such branches as will enable a student to acquire a thorough knowledge of tools and their uses. In order to do this in a satisfactory manner, it is necessary not only to give instruction in the class-room by theoretical methods, but also to have each student actually see, handle and use the tools for himself. These tools should, of course, be those which represent the best and most recent practice, showing in their construction the practical application of the theoretical principles advanced by our best authorities. Thus, after studying in the class-room about the application of certain principles of mechanism, if the student can step into the shop and see a machine whose movements are governed by the practical application of these same principles, it can only result in fixing them indelibly in his mind, and in such a manner that he can always have them at his command. With this object in view, there is now in this department machinery of the latest improved patterns, and of a manufacture which is considered standard by our educated machine users. But in order to show just how the department stands in this respect, a running description of its facilities will not be out of place :

The wood working department is in a frame building 84x34, and consists of fifty-two carpenters' benches, each of which is equipped with all tools necessary for performing the common work which any carpenter would be called upon to do. For any work of a special character, the tools required are obtained from a set which is kept in the tool room for special use. Thus, large classes can be accommodated in such a manner that each student has his own tools, and is responsible for their care and condition, and so becomes accustomed to taking the same pride in their appearance that he would were they his personal property. The exercises in this branch of the department are at first very simple, but gradually lead up to some of the more intricate joints in common use. Each piece of work must reach a certain standard of accuracy, and the consequence is that each student is careful to have his work finished in a workmanlike and creditable manner before thinking of going on to the next exercise. In this same building is an upright engine, which was formerly used for driving the machinery of the department, but which now is used as a model for showing the principles which are common to

all steam engines. By detaching the parts and examining them separately in regard to their position and work, the student will be enabled to better understand and easier remember the principles which govern the use and movements of all similar pieces in this or other engines. The boiler, which is also upright, may be said to answer the same purpose as the engine, the parts not being detached, but simply noted while in place. All the iron working tools and the machinery for working wood are in the new shop, which is a brick building 80x35, exclusive of boiler room. In this building there are tools which comply with the requirements enumerated in the beginning of this report as necessary for proper instruction; that is, they represent the latest and most approved principles for machine tools, and are of standard manufacture. The engine used for supplying power in this shop is one of the latest pattern of the high speed engines, and is known as the straight line engine. In this we have an illustration of the automatic governor, as applied to these quick moving engines, which, in itself, is an interesting study. Thus we have both the old style ball governor and the new centrifugal governor in close proximity, and in fair condition for comparison. The boiler room is a smaller room adjoining the main shop, and is well arranged for light and ventilation. The boiler is of the type known as "Safety Boilers," and was made by the Harrison Safety Boiler Works, of Philadelphia. It is somewhat peculiar in construction, being composed of globular sections, and thus presenting the largest amount of heating surface possible to the action of the flames and heated gases rising from the furnace. This, of course, tends toward economy in fuel, and from the construction and material used this boiler is noted for its strength and safety. And safety is a property of the greatest importance, especially where the boiler is to be used for instructing those who are entirely ignorant of its running and care. The machine tools have been reinforced by the addition of a planer and drill press, manufactured by the Pratt & Whitney Company, of Hartford, Connecticut, and these, added to the tools already on hand, give the shop an appearance of business and solidity. The new shop has been carefully fitted up, and as much of the work done by students as possible. With all improvements and the increased call for labor, the question of running the shop on a good basis now demands an ally in the shape of a regular fund for running expenses and repairs. Not only must such supplies as oil, waste, etc., be kept on hand, but materials for exercises, both in wood and iron, must be constantly on hand in order that the students may go on with their regular work without delays. Beside these regular expenses there occur many minor ones, incident to the smooth running of any and every shop, and also those which always occur in keeping a building and its surroundings in good order. By economical expenditures and care in laying out the

regular expenses, an annual fund of \$800 would be sufficient to carry on the department in a satisfactory manner, at least, until the equipment was considerably modified.

In order to have a thoroughly equipped shop, and one capable of meeting the demands of large classes, it is necessary to increase the number of tools. The following tools would meet a great want, and could be obtained at a cost of about \$1600: Milling machine, iron lathe, four wood turning lathes, emery wheel, and forge for smith work.

These tools would add but little to the annual cost of running the department, and would greatly increase the facilities both for work and instruction.

In connection with this department is that of mechanical drawing, which links itself almost inseparably to the shop and its contents. Here the student is enabled to put his ideas on paper in such shape that a mechanic can readily understand them, and produce them in metal or wood, as the case may be. This, of course, cannot be acquired at once, so the first step is to familiarize the learner with the use of the instruments, and give him a certain amount of skill in their manipulation. In order to arrive at this result, a series of instructive exercises and problems are given, which call on the ingenuity as well as natural talent of the beginner. These are followed by the construction and representation of some of the elementary forms of mechanism, such as screws, gear wheels, curves, etc. These, in turn, are followed by drawings made from measurements taken from actual pieces of machinery, and especial care is taken to have all dimensions placed on the drawings in such a manner as to be perfectly plain and intelligible.

Finally, the design of parts of machinery is taken up and the knowledge of strength of material and construction is put into actual use. The department is in good condition, and with a few slight changes, which should be made very gradually, can be carried on successfully on its present basis.

R. H. WHITLOCK, M. E.

Professor Mechanics and Mechanical Drawings.

SUMMARY OF NEW TOOLS PURCHASED SINCE JANUARY 1, 1883.

Engine.

Boiler, complete.

Planer.

Drill press.

Steam pump.

Pipe cutter.

Tube expander.

Pipe wrench.

Large screw wrench.
3 dozen files (assorted).
 $\frac{1}{2}$ dozen dividers.
 $\frac{3}{4}$ dozen claw hammers.
2 try squares.
2 saw sets.
4 hack saws.
3 dozen chisels.
3 saws (cross-cut).
6 saws (keyhole).
2 pairs snips.
2 circular saws.
 $\frac{1}{2}$ dozen plane irons with caps.
1 dozen screw drivers, 6 inch.
3 hickory mallets.
3 compass saws.
2 gauges.
30 feet 2-inch shafting.
2 pulleys, one with special hub.
2 belt punches.
Oil, waste and small articles for running use.

REPORT OF DEPARTMENT OF CHEMISTRY.

Hon. George Pfeuffer, President of the Board of Directors:

SIR—The instruction in this department is given by recitations and laboratory work. The mechanical students take up the subject in the second class, reciting daily for one hour. The recitations consist of explanations of the text, with ample illustrations by means of appropriate apparatus, and questions and problems based upon these. In this manner a brief course of inorganic chemistry is completed, and a fair general idea of the nature of the most prominent of the carbon compounds obtained in the course of five months. The agricultural students continue the study of chemistry in the first class, entering the laboratory and working for two hours daily, first at qualitative analysis, then, as they may attain the requisite proficiency in this, proceeding to a few simple exercises in quantitative work. The time given to the course admits of nothing more than the establishment of a fondness for chemical study, and the acquisition of sufficient skill and knowledge to lead to a proper appreciation of the science and the ability to make useful observations, as well as to understand the work of chemists as it bears directly upon the arts. A good introduction to a professional knowledge of the subject may be obtained by the additional year of laboratory practice in the post graduate course.

APPLIANCES.

Besides the necessary apparatus for lecture illustration, the department is fitted with desks, sets of reagents and other requisites of twenty quantitative outfits. There are also analytical and common balances, microscopes, mercury pumps, gas tubes, burettes, saccharimeter, cathetometer, goniometer, a very good stock of porcelain and glass ware, and in general a very excellent supply of what is necessary for the successful working laboratory of a good course of instruction. Several of the instruments mentioned are very fine, having been imported from the most noted makers. The total value of the stock of this department is \$3244.21, as shown by the inventory on file in the office of the agent of the board. There is greatly needed a regular income of at least \$200 per year for the purpose of making repairs, buying chemicals, and

adding such instruments as the continued rapid advance of chemical science renders necessary for instruction and research. At least part of the time of a competent assistant is also much needed, as there is no one now to aid the professor, even in the mere drudgery of the laboratory.

There are now receiving instruction in this department one post graduate, eleven first class and twenty-three second class students, in all thirty-five.

The subject of geology is assigned to this department.

Very respectfully your obedient servant,

H. H. DINWIDDIE,
Professor of Chemistry.

REPORT OF DEPARTMENT OF MATHEMATICS.

Hon. George Pfeuffer, President Board of Directors A. and M. College of Texas:

SIR—In response to your letter, I have the honor to submit the following report of the Department of Mathematics:

METHOD OF INSTRUCTION.

Instruction in this department has for its aim to lead the student into the habit of analyzing every subject, and giving reasons for every operation performed. He is not encouraged to memorize mere rules, until he has mastered the principles upon which they are established, but he is required rigidly to demonstrate and establish every principle, rule and formula, before applying them to solution of examples and problems. The value of mathematics in the practical affairs of life, its application to the arts, its utility in developing and strengthening the intellectual powers, and its importance as a means of investigating the laws of nature, are constantly impressed upon the student's mind.

As the leading object of this institution is to educate practically, prominence is given to the practical utility of mathematics, and, as far as possible, every principle demonstrated is illustrated by some problem involving its practical application.

The recitations are conducted by means of carefully selected text books, supplemented, from time to time, by such additional explanations, illustrations, demonstrations and problems as serve to impart to the student a thorough, philosophical and practical knowledge of the subjects taught. For the branches of mathematics taught in this institution, you are respectfully referred to the course of study given in the report of the Chairman of the Faculty. A brief reference, however, to some of the branches most important in a practical education will not be out of place.

Special attention is given to a thorough review of arithmetic and drill in the principles of algebra, as forming the great ground work and basis of all mathematical investigation.

In geometry, the student's attention is specially directed to the connection of the different propositions, so that he may see the chain of reasoning which links the different parts in one symmetrical and continuous whole. Numerous examples and problems are given, showing the application of geometrical principles in the work of the mechanic, the farmer, the surveyor, the engineer and the astronomer. In addition, ex-

ercises in inventional geometry are given, which not only tend to render the student thoroughly familiar with geometrical ideas, but also develop his inventive and constructive faculties.

Trigonometry is taught with special reference to its application in mensuration and surveying.

Mensuration gives the student practice in applying the principles of algebra, geometry and trigonometry to the determination of the dimensions of surfaces and solids.

In surveying and leveling, in addition to the theory, the student is given sufficient practice to acquaint him with the principles, construction and use of the compass, transit, solar compass, plane table and engineer's level. This practice embraces, running boundary lines, laying off and dividing lands, finding last corners, drawing plots, calculating area, determining the true meridian and the variation of the needle, finding difference of level, leveling for section, cross-section work, calculating embankments and cuts, laying out railroad curves, drawing profiles, leveling with reference to drainage, etc., etc.

In mechanics the student is taught the application of mathematics to the composition and resolution of forces, laws of gravity, laws of motion, etc., etc.

The course in mathematics embraces also analytical geometry, descriptive geometry, and the differential and integral calculus (the last two optional), and concludes with a course of lectures upon the general theory of equations, the principles of modern geometry, the theory of limits, the history and utility of mathematics.

EQUIPMENT.

The department is supplied with a complete set of mathematical models, and surveying and engineering instruments.

NUMBER OF STUDENTS.

Class.	1883-84.	1884-85.	Studies.
Post graduate.....		1	{ Surveying. Leveling. Mechanics.
First	15	11	{ Leveling. Analytical geometry Mechanics.
Second.....	21	27	{ Geometry. Trigonometry. Mensuration.
Third	72	73	{ Surveying. Arithmetic.
Preparatory		24	{ Algebra. Arithmetic.
Total.....	108	136	

Respectfully submitted,

LOUIS L. McINNIS,
Professor of Mathematics.

REPORT OF THE DEPARTMENT OF PHYSICS.

COLLEGE STATION, TEXAS,

January 5, 1885.

Hon. George Pfeuffer, President Board of Directors of the A. and M. College of Texas :

DEAR SIR—I trust that the following brief report will be deemed sufficiently explanatory as to the status of the Department of Physics at this institution :

The students of the college begin the study of physics upon entering the third class, and complete it in the next, or junior, year. The course of study is thorough and sufficiently comprehensive. The principal text books used are Gage's physics and Ganot's. The students are familiarized with the various topics, by means of illustration and experiment at every recitation, and by lectures delivered by the professor on all important subjects.

In the great universities of the world, in all well-equipped colleges, and especially in schools of a practical and scientific tendency, the study of physics ranks among the most prominent. In some, it is, perhaps, the most prominent. The investigation and the study of its theories are of living interest to all. There can be no scientific education without a thorough understanding of its teachings. A knowledge of its laws and principles not only concerns the cultured scholar and the scientific investigator, but is intimately associated with the comfort and success of individuals of all classes and pursuits, with the well being of society, and the progress of civilization. In order to show the importance attached to the study of physics, I will briefly remind you that the government of the Empire of Japan, recognizing the value of this science, has lately taken measures to encourage the study of it as taught in the colleges of Europe and America, in its own schools and among its people.

The students of my classes have exhibited a gratifying interest in the various topics presented to them, and I believe they have learned much that will be useful to them as practical and scientific men.

The study of astronomy belongs also to this department, which the students of the first, or graduating class, pursue during the latter half of the session. The instruction given the students, by lecture and by text book, is as thorough as could be expected.

In addition, it devolves upon me to devote a portion of my time each day to the instruction of the students of the preparatory department. I have perceived, since the establishment of this department by the Board of Directors, that much good to the college will come from it; and I am specially anxious that the authorities should do everything in their power to encourage, develop and make efficient this branch of the institution, which hereafter ought to furnish the best material for our collegiate classes.

The equipment of the department of physics is tolerably complete. The department needs about two hundred dollars annually for the purchase of new and improved apparatus, and for the repair and renovation of old; and I would request your honorable Board to make provision accordingly, whenever it may be convenient to do so.

In conclusion, I beg to submit an inventory of the property belonging to my department. The sum total (\$2,168.16) represents the cost value. The last five items, amounting to \$225.86, have been purchased since the first of January, 1883.

NUMBER OF STUDENTS.

CLASS.	1883-4.	1884-5.
First.....	15	11
Second.....	21	27
Third.....	72	73
Preparatory.....	24
	<hr/>	<hr/>
Total... ..	108	135

I have the honor to subscribe myself your very obedient servant.

W. L. BRINGHURST.

REPORT OF THE DEPARTMENT OF ENGLISH.

Hon. George Pfeuffer, President of the Board of Directors:

SIR—The following report of the department of English Language, Literature and History is submitted.

The closest and most earnest attention is given to the student when he first enters college that he may thoroughly master the principles of the English language. He is taught by recitations from the text book, by daily exercises on the blackboard in writing, spelling, diagraming, analyzing and criticising, by oral lectures, with charts and blackboard illustrations; by a complete review of the whole text book by the student in writing, convenient divisions of the work being assigned, and by original compositions on subjects selected by the professor.

In rhetoric the student is taught by text book, composition, written exercises on the blackboard, criticism by professor and class, by a written review of the work in a series of papers by the students, and by lectures. This work is made to supplement the English grammar. The students are constantly exercised at the blackboard in spelling, punctuation, correct construction, developing subjects, and the entire class are required to criticise the exercises before them.

In elocution the student is taught pronunciation, emphasis, diction modulation of voice, grace, dignity, self-possession and manliness. His memory is exercised, his confidence in his own powers and manhood is augmented, and he is encouraged to be self-reliant, and a leader rather than a follower. This subject is taught by practice, declamation, lecture, and illustration.

In English literature the student is taught the origin, history, changes, and development of the English language. The great works of poetry, history, philosophy, science, fiction, miscellany and their authors, and times are brought to his attention as fully as the time allotted to the department will allow. Lectures, reading, selections, discussions, criticisms, compilations, comparisons with the works of other languages, ancient and modern, all are brought to bear on the subject to make the work as complete as possible.

In teaching the history of the United States, special attention is given to the history of the people, civilization, gradual development of the constitution, laws, and political system of the republic. The history of the

political parties, of great measures that have convulsed the nation, of the acquisition, government and development of our vast territory, of our great leaders, military, civil religious, and educational, is presented to the student in oral lectures, and the lessons of courage, liberality, patriotism, manhood, and morality are constantly impressed upon the student.

In general history, ancient and modern, it is intended to give the student an outline of the principal nations, peoples, governments, religions, and languages, from the creation to the present time. Special attention is directed to the different kinds of governments and laws, comparisons between free and despotic governments, between contemporaneous people, and the causes of the rise and fall of nations. The students are required to write essays on selected subjects, embracing the history and characteristics of the various nations of the earth. Maps of the world and of separate nations are constantly studied in the progress through the text book; chronology, geography, and the facts of history keep step as the student is led down the centuries. Written and oral lectures are delivered by the professor, aided by excellent historical charts for illustration and demonstration.

The work of this department is intended to make accurate English scholars, well read, thoughtful historians, to fit them for work in the front rank of to-day. Our own language and history and modes of thought are the great instrumentalities with which the young men of our State must cleave their way to success and usefulness in the progress of civilization. No department of education can possibly be of greater importance than that of our own language and history.

NUMBER OF STUDENTS.

Class.	1883-84.	1884-85.
First.....	15	11
Second	21	27
Third	73	73
Preparatory	24
Post Graduate.....	1
Total.....	108	136

I am very truly your obedient servant,

J. R. COLE,
Professor of English and History.

REPORT OF DEPARTMENT OF LANGUAGES.

A. AND M. COLLEGE OF TEXAS,
COLLEGE STATION, January 8, 1885.

Hon. George Pfeuffer, President Board of Directors:

In compliance with your communication of December, 1884, I have the honor of rendering the following report:

Below please find a synopsis of the Department of Languages, showing both the number of students during the preceding collegiate year and the present one; also their distribution in the various classes:

1883-1884.	1884-1885.	This Year.
German22	German, 38, in 3 sections	German.....16 more than last year.
Spanish 9	Spanish, 28, in 3 sections	Spanish 19.....more than last year.
Latin11	Latin, 3	Latin.....7 less than last year.
Total number.....42	Total number.....69	27 more than last year.

The increase of the German class has not been brought on by accession from the preparatory class, but it is owing to the participation of the students from the regular classes. The boys of the preparatory class have, with few exceptions, chosen the Spanish language as the easier one to learn.

The study, in general, of modern languages in American institutions of learning gains more importance every year, not only for immediate practical purposes, but also theoretically, as a powerful means for mental training. While French and Spanish, from a practical point of view, are more of sectional interest, and as their grammars can not replace that of any of the ancient languages, the German language, both from its internal resources and its practical usefulness, stands in front of the modern language departments.

The new position which the modern languages are taking in the educational field have started new principles and arguments in regard to the method of teaching them. The intention of studying foreign language has two distinct purposes in view, a theoretical and a practical one; ancient languages are chiefly studied for theoretical or scientific ends, while the modern ones are learned more for use in practical life.

With respect to this difference, the method of acquiring the language is materially modified; the student who wants to fathom the language in its spirit and organic nature reaches his object by a careful study of grammar, while the practical student takes hold of it as he would of a tool, for gaining an end. In conformity with this difference of purpose, the method of studying a modern language has been styled the natural or grammarless method, in contradistinction to the method based chiefly on the study of grammar. By natural method is expressly meant the way by which a child learns to speak its own language, i. e., by constant practice in conversation. The truth of the practical application of the two principles within the schoolroom, lies in the middle. At a college where, under the most favorable circumstances, perhaps one lesson a day could be allotted to each section, the practice in constant conversation for one hour would amount to very little, since during the remaining twenty-three hours the student would hear, think, speak and dream nothing but his own language. But if the reading and conversation lessons are supported by a small grammar, containing no more than the systematic tables of the formative parts of the language, and exhibit in short statement the essential principles, then the student can safely be carried on in the translating and speaking, so that after finishing his three years' course, he has of the foreign language not a mere piecemeal knowledge but a pretty fair understanding, which will enable him, under favorable circumstances for practicing, to become in a short time a fluent talker.

RUDOLPH WIPPRECHT,
Professor of Languages.

REPORT OF DEPARTMENT OF MILITARY SCIENCE AND TACTICS.

Hon. George Pfeuffer, President of the Board of Directors :

SIR—I have the honor to submit the following special report, in compliance with your request:

The act of Congress, endowing this and similar institutions, provides that military tactics shall be taught, and accordingly, an officer of the regular army is detailed by the direction of the President of the United States to carry out this provision of the act, the institution being at no expense for his services in this capacity. The necessary arms, accoutrements and ammunition are also furnished by the general government, without cost to the college. They consist of 200 Springfield rifles, calibre 45, the corresponding accoutrements of bayonets, cartridge boxes, belts, plates, etc., and of two bronze field pieces, old pattern, and the necessary implements. The ammunition furnished yearly consists of 1000 carbine ball cartridges, 1000 carbine blank cartridges, 100 rounds of blank cartridges for field guns, 300 friction primers.

The undersigned has taken extraordinary precautions to guard against damage and loss in the case of all government property, and has established a thorough system of responsibility for that issued to cadets.

INSTRUCTION.

The military instruction given is confined to infantry and artillery drill, a limited amount of target practice, and the duties of sentinels. Instruction in infantry tactics includes everything in the schools of the soldier and company, and all maneuvers in the schools of the battalion not requiring for their execution more than four companies. During a part of the winter, when drills are necessarily suspended, the officers and non-commissioned officers receive theoretical instruction in infantry tactics, reciting in the class-room once a week. The artillery drill includes the "manual of the piece dismounted," and the "maneuvers of two gun detachments." Target practice is generally confined to ranges of 100 and 200 yards, and is limited to members of the graduating class. Guard duty is very light, sentinels being posted in the barracks only during study hours at night, to preserve order and prevent cadets absenting themselves from the college. Assuming an average of only 100 cadets during the year, each would serve only on one hour's guard duty

during six days. The average length of a drill is slightly under one hour, and there are usually three per week.

DISCIPLINE.

The army officer on duty at the college, and who is designated by the war department as professor of military science and tactics, is commandant of the military corps which the students constitute. The corps is divided into two or more companies, according to the number of students present, and for a battalion drill, these companies are sub-divided into four or more. The officers are usually selected from the first class, and the non-commissioned officers from the second and third classes. They are appointed by the chairman upon the recommendation of the commandant, and the latter, in making his recommendations, regards not only the fitness of the cadet in a strictly military sense, but his general conduct and class standing are allowed to have due weight. In this way, much of the best material among the students is utilized, and a part is made an efficient instrument for the preservation of the discipline of the whole. To the charge of certain of these officers divisions of the barracks are assigned, and it is the duty of each, under the general supervision of the commandant, to see that at the proper time all the rooms in his division are swept out, the beds made up, and, at the signal, the lights extinguished; also to preserve order in the division when sentinels are not posted. The performance of these duties does not consume much time, for they are mainly accomplished by a system of rapid inspections. In the mess hall, each cadet is assigned a particular seat at a particular table, and each table is under charge of an officer, who preserves order and decorum at that table. All cadets enter the mess hall together, take their seats simultaneously, at command; similarly they rise and leave the hall in a body.

As all academic and military exercises are preceded by roll call, an officer of the day and a non-commissioned officer as his assistant are detailed daily to be present at all formations, superintend the roll calls, receive the reports and hunt up the absentees. It is also their duty to stop all disturbances in and about the barracks, to report all violations of the regulations, to inspect all rooms occupied by cadets, and to visit each relief of the guard when on post. The punishments imposed for breaches of discipline are, deprivation of privileges, confinement to quarters, Saturday punishments, reduction to ranks of cadet officers, suspension and dismissal. A cadet serving a Saturday punishment, walks one hour on Saturday, equipped as for drill; only privates are punished in this way. For similar offenses, officers and non-commissioned officers are confined to their quarters. Demerits, also, are assigned according to a graduated scale, and any cadet who receives 150 demerits for the first five months, or 250 during the session, is subject to dismissal. For

every month passed without receiving a demerit, the cadet has ten removed from the whole number recorded against him. Also, merits are given to twelve cadets whose rooms are neatest at Sunday morning inspection of quarters, and to six whose persons, clothing, arms and accoutrements are neatest at inspection under arms on Sunday. These merits cancel a corresponding number of demerits, and it is thus seen that a laudable rivalry is stimulated, and subsequent good behavior made to atone for previous misconduct. An exhibit is prepared at the end of each month, showing the number of demerits and merits received by each cadet during the month, and the total number to date; this is displayed for the information of all cadets. Also, all offenses, together with the demerits received for each, are copied under the proper name and date into a demerit book. The frequent recurrence of roll calls during the day, the posting of sentinels in the barracks from evening call to quarters to 9:45 p. m., the inspection of every room at 10 p. m., and its liability to inspection at any subsequent hour of the night, are efficient checks against cadets absenting themselves from the college any length of time.

From the foregoing, it is seen that there is no conflict, or even friction, between the military and academic features of the college. The time devoted to actual drilling is comparatively short, and occurring in the afternoon, when the academic duties for the day are over, furnishes the most healthful and regular exercise that could be devised, at the same time furnishing the student instruction that may prove in the future of advantage to the State and country. The military system of discipline enforced, insures regularity and exactness in the performance of academic duty, inculcates habits of neatness in person and dress, promotes truthful speech and manly bearing, does away with all distinctions except those based upon merit, deters from wrong doing by causing an adequate punishment to follow swiftly the commission of every misdeed, and holds out tangible rewards to the deserving, in the shape of positions of trust and responsibility.

The undersigned was assigned to duty at the college by the War Department, in October, 1883; his detail expires three years from that date.

I am sir, very respectfully your obedient servant.

JOHN S. MALLORY,

Second Lieutenant Second United States Infantry, Professor Military Science and Tactics, Commandant of Cadets.

REPORT OF THE SURGEON.

Hon. George Pfeuffer, President of the Board of Directors.

SIR—In compliance with your request, I have the honor to submit my report as surgeon of the A. and M. College, covering a period of two years, from January, 1883, to January, 1885.

I was appointed to the position of surgeon on the first of October, 1882, and from that date until June, 1883, resided at Bryan, visiting the college every morning. In June, 1883, by a resolution of the Board of Directors, I was made resident physician, since which time I have made my home at the college. During the past two years the health of the college has been remarkably good. As far as possible every cause of sickness has been removed. We have had an abundant supply of cistern water, both for drinking and bathing, with the exception of a short time last fall, when, in consequence of the drought of the past summer, the supply was nearly exhausted. Additional cisterns have been built during the past year, and there is no longer any danger of the supply being exhausted. Ample accommodations have been made for bathing, and cadets are required to bathe at least once a week. With a larger class, however, it would be necessary to provide additional facilities.

The college has never been furnished with a suitable building for a hospital—a building almost indispensable in view of the possibility of contagious diseases.

The attention of the Board of Directors has been called to the matter in my last two annual reports, and has received their earnest attention, \$2200 having been set aside for its construction and equipment, but this amount was found to be insufficient, and the demands of other departments being more urgent, the money was used for other purposes.

With reference to the matter of diet, it affords me pleasure to say that an ample supply of properly cooked and wholesome food has been furnished to the cadets, and to this fact I attribute, in a large measure, the health of the corps during the past two years. In the construction of the college a great mistake was made in failing to provide suitable arrangements for heating the buildings. Heated, as they are, with stoves the rooms are generally kept too warm.

For further information concerning matters connected with my department, I beg leave to refer you to my annual reports, which have been published in connection with the "Reports of Officers and Faculty."

Respectfully,

J. D. READ, M. D., Surgeon.

REPORT OF LIBRARIAN.

Hon. George Pfeuffer, President of the Board of Directors:

The report of the library, as required by you, is hereby respectfully presented:

The library of the A. and M. College, according to the catalogue, contains 903 separate works, in 1490 volumes. The cost of the books, together with that of fixtures, amounted to \$2295.84. The purchase of the books took place during the years 1879 and 1880. Since that time not another book has been bought, for want of funds. Besides the works acquired by purchase, the library was presented with a number of books, some of them valuable for their rarity or their contents. The library consists of more or less nice collections of works on history, geography, languages, chemistry, physics, mathematics, agriculture, mechanics and literature. There are but very few books on our shelves suitable for the students; they need books of all sorts for references and refreshment; the books must be compendious, for young men have not yet the necessary interest, nor the time either, for perusing voluminous works. Books of such a character as we want have these last years been published in large numbers, on the most various subjects, and for reasonable prices. The library, therefore, ought to have a permanent fund from which to draw money whenever necessity arises. A library, moreover, which is not increased, is constantly decreasing through the continuous wear and tear of books; and a library that cannot be kept up with the intellectual progress of the times soon gets antiquated, and loses its power as a medium for instructing and improving the mind.

RUDOLPH WIPPRECHT, Librarian.

REPORT OF THE AGENT OF THE BOARD.

Hon. Pfeuffer, President of the Board of Directors.

SIR—Reviewing the operations of my administration of the business affairs of this institution, I will say in the first place, that the cost of repairs and improvements that have been undertaken and completed were necessarily more than they would have been under ordinary or more favorable circumstances. Since the beginning of my labors I have found it impossible to procure either the best or cheap labor, owing to the great and universal demand for mechanics and workmen of all classes. I have been constantly embarrassed by this difficulty. Moreover, the various improvements at the college had to be completed without delay. I could not postpone the erection of buildings, and attention to repairs that the board had ordered. So I was absolutely compelled to pay very high prices generally for labor of the most unsuitable character.

Considering the condition of the buildings when I took charge of them, it is not a matter of surprise, perhaps, that the superficial observer might fail to see where and how considerable sums of money were expended upon them. The buildings have been renovated and repaired. I received from the premises all the mattresses that were old and unfit for use, and provided new and good ones in their stead. To do this I was compelled to overdraw the appropriation for that purpose. The residential portion of the mess-hall building and the professors' houses were badly in need of repairs. The walls of all six of these structures are now held together by staunch rods of iron, and such work, in the way of repairs, upon them as it was possible to do has been done. As the agent of the Board of Directors, I have endeavored to be the faithful executor of their views and wishes, the board having furnished me with general instructions only as to my duties, the details of which were left to my own judgment.

Knowing that the only way to satisfy the cadets, and to bring them heartily into sympathy with the college and its authorities, was to make them comfortable in their quarters, and to feed them well, I have been unremitting in my efforts to accomplish this. If any institution is to succeed, much certainty depends upon the temper of the students. I believe that young men and boys away from home at school should be treated in a manner that will approximate, as nearly as possible, to correct and careful parental training and culture. Last session the number of

student in attendance was comparatively small, considerably less than at present. I knew they could not be properly maintained for the amount charged them while the schedule of expenditures was made on the basis of an average attendance of one hundred students, for the actual average of 1883-84 was only seventy-five. I preferred to give them such fare as I knew they ought to have, and run the mess-hall department into debt, rather than to allow them to be fed badly, and thus impair the standing and reputation of the school. I determined to give them good, wholesome and generous food, and risk the consequences. The result shows that the college has improved and fortified its reputation. Its usefulness and value as a State institution has thereby been enhanced, and its successful future depends only upon a reasonable administration of its financial and academic concerns.

While speaking of the mess hall department, I will remind your honorable board that a young man between fifteen and twenty-one years of age, passing through a period of physical and intellectual development, of growth and of study, requires better and more wholesome and nourishing food than at any other time of life; yet, with an average attendance of 125 students, any diminution in quality or quantity of the fare now supplied them will not be necessary in order to keep within the amount charged students at the college at the present time.

Much has been done towards the improvement of the property and the affairs of the college. Of course there is still much more to be done. As large a property as this requires constant expenditure of money and labor. I trust and believe that the benefit to the people of Texas will be correspondingly great in results derived from the educational advantages of the institution.

For detailed statement of expenditures made by me under the authority of the Board of Directors I respectfully refer to the report of the Treasurer.

Before closing my report, I would say that some of the buildings are yet in need of repairs. The kitchens of all the professors' houses ought to be rebuilt, having been badly constructed in the first place. In the main building the walls need calsomining or painting. The mess hall was newly plastered last year, but owing to want of time the work in the dormitories belonging to that building was not finished.

In reply to your question in regard to value of buildings, I will say that I know nothing of their original cost. The following figures are taken from last year's catalogue:

Main building.....	\$100,000
Mess-hall and adjoining building.....	35,000
Five professors' houses.....	15,000
Two wooden buildings.....	9,200
	<hr/>
	\$159,200

These buildings were all put up before my connection with the college.

The college owns about 2416 acres of land, about 1400 of which are in pasture, 160 in the campus, 85 in cultivation, and 871 uninclosed.

The college has as many students at present as it can well accommodate. If there is much increase in the number, new accommodations will have to be made, to cost say \$12,000 or \$15,000.

I have the honor, sir, to remain your most obedient servant.

WM. P. HARDEMAN.

REPORT OF SECRETARY AND TREASURER.

Hon. George Pfeuffer, President Board of Directors A. and M. College of Texas:

SIR—In response to your letter, I respectfully submit the following report:

GENERAL STATEMENT.

RECEIPTS AND DISBURSEMENTS, JANUARY, 1883, TO JANUARY, 1885.

Receipts, January 1 to June 21, 1883:

State of Texas for State students,.....	\$9,879 42
State of Texas, for State vs. Peter Winter.....	258 95
All other sources—from students, etc.....	5,777 08

June, 21, 1883, to June 21, 1884:

State of Texas, appropriation.....	30,000 00
State of Texas, State vs. Peter Winter.....	541 05
All other sources, from students, etc.....	15,187 64

June 21, 1884, to January 5, 1885:

State of Texas, appropriation... ..	9,869 05
All other sources, students, etc., to date....	11,420 96

Total receipts.\$82,934 15

This does not include receipts from interest arising on United States land grant endowment fund, which by law is used exclusively for payment of professors and officers. In the appropriation act for year ending February 28, 1885, \$10,000 from University fund was appropriated for maintenance of the A. and M. College. There is still due from this appropriation \$130.95, which amount was charged to that appropriation, instead of to the available University fund, said amount being for the payment of the expenses of members of Board of Directors incurred in attending meetings of the board.

Disbursements, January 1 to June 21, 1883:

January 1 to June 21, 1883:

For support of State students (which includes amount due for that purpose January 1, 1883—\$3123.69).....	\$9,879 42
For expenses, suit State vs. Peter Winter.....	258 95
For other expenses....	6,245 51

June 21, 1883, to June 21, 1884 :

State appropriation.....	33,326 12
Expenses State vs. Peter Winter.....	706 25
For all other expenses.....	14,569 19

June 21, 1884, to January 5, 1885 :

State appropriation.....	6,700 98
For all other expenses.....	10,654 88

Total disbursements.....	\$82,341 30
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Total receipts ..	\$82,934 15
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Total expenditures.....	82,341 30
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Balance cash on hand...	\$592 85
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“For all other expenses” includes board, washing, fuel, lights and medical attendance for students, postage, stationery, printing, advertising, pay of all officers and employees except those hereafter mentioned as paid from the interest on endowment fund, and all other expenses incidental to the operation and maintenance of the college.

The average of these expenditures, exclusive of the amount actually expended for groceries, washing, fuel and lights is between six and seven thousand dollars annually.

Following is distribution made by Board of Directors, June, 1883, of the State appropriation:

I.

For the College Proper.

For laundry and fixtures.....	\$2,000 00
For hospital and furniture.....	2,200 00
For repairs of professors' houses	1,500 00
For repairs and improvements of mess hall.....	4,000 00
For repairs of main college building	3,000 00
For room furniture	200 00
Total.....	\$12,900 00

II.

For the Agricultural Department.

For farm and stock purposes.....	\$15,000 00
For agricultural chemistry	2,250 00
For contingent expenses.....	1,850 00
Total.....	\$19,100 00

III.

For the Mechanical Department.

For building workshop.....	\$4,500 00
For tools, machinery, etc.....	2,800 00
For engineering instruments	700 00
Total.....	8,000 00

Aggregating \$40,000.

The following was condition of these accounts June 21, 1884:

ABSTRACT OF LEDGER, STATE APPROPRIATION.

Agricultural Appropriation.

Dr.		Cr.	
To amount charged to this account as per exhibit.....	\$7,736 78	By amount appropriated by board	\$15,000 00
To balance	7,302 72	By sundry credits.....	39 50
	<u>\$15,039 50</u>		<u>\$15,039 50</u>
		Balance unexpended	\$7,302 72

Mechanical Appropriation.

To amount charged to this account as per exhibit	\$7,758 73	By amount appropriated by board.....	\$7,300 00
		By cash received.....	12 25
		By balance	446 48
	<u>\$7,758 73</u>		<u>\$7,758 73</u>
Amount overdrawn	\$446 48		

Chemistry and Physics Appropriation.

To amount charged to this account as per exhibit.....	\$2,167 14	By amount appropriated by board.....	\$2,250 00
To balance	90 66	By cash received	7 80
	<u>\$2,257 80</u>		<u>\$2,257 80</u>
		Balance unexpended	\$90 66

Mathematical Appropriation.

To amount expended as per exhibit.....	\$656 91	By amount appropriated by board	\$700 00
To balance	43 09		
	<u>\$700 00</u>		<u>\$700 00</u>
		Balance unexpended	\$43 09

Furniture for Dormitory.

To amount expended as per exhibit.....	\$348 39	By amount appropriated by board	\$200 00
		By balance	\$148 39
	<u>\$348 39</u>		<u>\$348 39</u>
Amount overdrawn	\$148 39		

Contingent Appropriation.

To amount expended as per exhibit.....	\$2,035 09	By amount appropriated by board.....	\$1,850 00
		By sundry credits.....	160 49
		By balance	24 60
	<u>\$2,035 09</u>		<u>\$2,035 09</u>
Amount overdrawn	\$24 60		

Repairs and Improvements of Mess Hall Appropriation.

To amount expended as per exhibit	\$5,366 67	By amount appropriated by board.....	\$4,000 00
		By sundry credits.....	327 36
		By balance	1,039 31
	<u>\$5,366 67</u>		<u>\$5,366 67</u>
Amount overdrawn	\$1,039 31		

Repairs of Main Building Appropriation.

Dr.		Cr.	
To amount expended as per exhibit.....	\$2,946 23	By amount appropriated by board.....	\$3,000 00
To balance	85 22	By sundry credits.....	\$3,031 45
	<u>\$3,031 45</u>		
		Balance unexpended	\$85 22

Repairs of Professors' Houses Appropriation.

To amount expended as per exhibit.....	\$1,191 24	By amount appropriated by board.....	\$1,500 00
To balance	422 37	By sundry credits.....	116 61
	<u>\$1,616 61</u>		<u>\$1,616 61</u>
		Balance unexpended.....	\$425 37

Hospital and Furniture Appropriation.

To amount expended as per exhibit.....	\$1,030 30	By amount appropriated by board.....	\$2,200 00
To balance	1,169 70		
	<u>\$2,200 00</u>		<u>\$2,200 00</u>
		Balance unexpended.....	\$1,169 70

Laundry and Fixtures Appropriation.

To balance	\$2,000 00	By amount appropriated	\$2,000 00
	<u>\$2,000 00</u>		<u>\$2,000 00</u>
		Balance unexpended	\$2,000 00

The following is a summary showing amount of State appropriation yet unexpended.

Summary.

Dr.		Cr.	
Mechanical.....	\$446 48	Agricultural.....	\$7,302 72
Furniture	148 39	Chemistry and Physics.....	90 66
Contingent	24 60	Mathematical	43 09
Mess hall.....	1,039 31	Main building.....	85 22
Balance	9,457 98	Professors' houses	425 37
		Hospital.....	1,169 70
		Laundry	2,000 00
	<u>\$11,116 76</u>		<u>\$11,116 76</u>
		Balance unexpended.....	\$9,457 98

At the annual meeting of the Board of Directors in June, 1884, it was found from foregoing exhibit that the repairs and improvements had cost more than had been anticipated, and therefore a re-distribution was made of the balance unexpended, as follows:

Expended as per report.....	\$30,542 02
To pay deficiencies.....	2,891 45
To Agricultural Department for purchase of stock, improve- ments, etc., etc.....	6,000 00
To Mechanical Department to finish equipment.....	600 00
To Chemical Department.....	107 00
To building cistern at mess hall.....	110 00
To contingent expenses.....	500 00
	<hr/>
	\$40,750 47
The total receipts from the State appropriation have been....	39,869 05
	<hr/>
Making a difference of.....	\$ 881 42

There has, therefore, been spent \$881.42 more than has been received which difference has been made up from the contingent fund of the college. There should be added to this amount \$165.20, deficiency in appropriation to pay expenses of State vs. Peter Winter, which was also paid out of contingent fund, making the total amount \$1046.62. The board, at the meeting in June, 1884, decided that a laundry could not be erected at this time, nor could further work on hospital be prosecuted, but that amounts set aside for these purposes should be used as above, to pay the excess of cost of repairs and improvements already made, and that material already on hand should be used for the additional improvements ordered in Agricultural and Mechanical Department.

Such has been done as far as the material could be utilized. The balance is still on hand.

The expenditure of State appropriation has therefore been :

Agricultural department.....	\$7,697 28	
	6,000 00—	\$13,697 28
Mechanical department.....	7,746 48	
	600 00—	8,346 48
Chemical and physical department.....	2,159 34	
	107 00—	2,266 34
Mathematical department, engineering instruments....	656 91—	656 91
Furniture.....	348 39—	348 39
Repairs and improvements—mess hall.....	5,039 31	
Cistern at mess hall.....	110 00—	5,149 31
Repairs main building.....	2,914 78—	2,914 78
Repairs professors' houses.....	1,074 63—	1,074 63
Hospital (some material bought).....	1,030 30—	1,030 30
Contingencies.....	1,874 60	
Contingencies.....	500 00—	2,374 60
Deficiencies.....	2,891 45—	2,891,45
	<hr/>	
Total.....		\$40,750 47

SUIT STATE VS. PETER WINTER.

Three or four years since, it was found that there was a conflict of title to about one hundred acres of the college land, said one hundred acres being situated in north northeast corner of college tract. By order of Board of Directors, suit was brought to perfect title to the State.

In the district court, judgment was given in favor of the State as to the land, but Peter Winter was given judgment for \$500 for improvements made.

The cause was appealed. In September, 1883, the Board of Directors compromised said suit. In reference to said compromise, I said in my last annual report :

“The Eighteenth Legislature appropriated \$800 to pay expenses in suit State vs. Peter Winter. Previous to my last report there had been drawn, to pay expenses of said suit, \$258.95, leaving balance \$541.05. The expenses attending the compromise of said suit were \$706.25. There is, therefore, a deficiency in that account of \$165.20.”

The State now holds titles from both of adverse claimants, duly recorded in clerk's office, Brazos county.

As the Supreme Court has, since that time, reversed and remanded said suit, the wisdom of the Board in making said compromise is apparent.

INTEREST ON ENDOWMENT ARISING FROM THE UNITED STATES LAND GRANT

The college endowment from above source consists of \$174,000 State bonds bearing 7 per cent interest; \$35,000 State bonds bearing 6 per cent interest; total, \$209,000 State bonds. Total annual interest, \$14,280. By the conditions of its donation and the laws of the State, the interest alone is available, and that only for the payment of professors and officers of the college.

The disbursement of the above fund from October, 1883, to date, has been the total amount of \$21,158.26.

There are now paid from said fund :

One Professor and Chairman of Faculty	\$ 2,000 00
Six professors, at \$1800.....	10,800 00
Agent of the Board.....	750 00
Foreman of shops.....	540 00
Overseer of farm.....	500 00

OTHER OFFICERS AND EMPLOYEES.

Besides the above, the following officers and employees are paid out of the contingent fund of the college:

Treasurer.....	\$ 200 00
Steward	1,350 00
Assistant professor of mathematics and corresponding secretary of faculty, nine months.....	675 00
Drummer and mail carrier, nine months.....	207 00
One janitor, twelve months.....	240 00
One janitor, nine months	180 00
One man of general work, twelve months.....	240 00
Resident surgeon and health officer, \$5 fee from each student, not to exceed	750 00
Besides other employes at mess hall and on farm.	

NEEDS OF THE SEVERAL DEPARTMENTS OF THE COLLEGE ON AN ECONOMICAL BASIS.

In order that the expenses to students may be made a minimum, and thereby the practical education afforded by the college enjoyed by the greatest number of young men from the industrial classes of our people, the college should have an annual income sufficient to pay the salaries and wages of all officers and employes absolutely necessary to its successful operation, and also the other expenses incidental to its work as an industrial institution, and to keep the buildings, grounds and equipment in thorough repair. The following estimate of annual needs in the several departments is appended.

For other needs in the way of improvements, reference is made to the several reports made to the Board of Directors.

ESTIMATE OF ANNUAL EXPENSES.

Pay of officers and employees.....	\$4000 00
Publication of reports, bulletins, etc., as required by act of Congress	500 00
Agricultural Department—current expenses, repairs, etc.....	2000 00
To pay expenses of professors in attendance, and holding of farmers' institutes in Texas	300 00
Mechanical Department—for necessary expenses.....	800 00
Physical Department.....	200 00
Chemical Department	200 00
Library	500 00
Current repairs	1500 00

The act of Congress by which the college is endowed, requires the publication of an annual report to be distributed to similar colleges in the country. The board have required annual reports from all officers, which reports have hitherto been printed at the expense of the small contingent fund of the college. As this expense is necessary, and required by the law founding the college, it is believed that annual provision should be made for the publication of these reports.

The holding of farmers' institutes has been found to be of great ad-

vantage in other States, both to the colleges and to the farmers. A small annual expenditure in this way would doubtless be fruitful of great benefit to the college.

INVENTORY OF PROPERTY.

PROPERTY BELONGING TO COLLEGE IN 1876-77.

One main college building, 151 1-2x60 feet; brick, four stories.
 One steward's hall and dormitory, 91x39 feet, three stories, brick.
 One residence attached to steward's hall, 40x30 feet, four stories, brick.
 One stable and barn, 48x40 feet, frame.
 Nine cisterns, brick, under ground.
 Plank fence, cedar posts, enclosing college campus, 161 acres.
 Two thousand four hundred and sixteen acres of land.
 Furniture for dormitories, etc.

The following are the principal improvements which have been made since 1877, and paid for out of the contingent fund of the college:

One two-story frame building, 84x34 feet, used as a wood-working shop.
 One two-story frame building, 84x34 feet, now used as dormitory for employee and storage rooms.

Five brick cisterns under ground.

Fence, plank and wire, for small pasture, south of the campus, 46 acres.

One bath house containing sixteen rooms.

Telephone line from college to Bryan, five miles.

One large iron safe (fire-proof).

And numerous repairs from 1877 to 1883.

IMPROVEMENTS FROM STATE APPROPRIATION, 1883.

One brick shop, 80x35 feet.

One brick store-room, with cellar, 50x20 feet.

One bakery.

One cattle shed.

One barn, complete.

Two brick underground cisterns.

Enclosing pasture east of college, 461 acres; fence, wire and plank, cedar and bois d'arc posts, and tank in same.

Enclosing pasture west of H. and T. C. Ry., about 850 acres, plank and wire, cedar, and bois d'arc posts.

Other property now on hand—Furniture for dormitories, including bedsteads, chairs, mattresses, wardrobes, tables, etc., etc., sufficient for 150 students; furniture in professors' residences.

Mess Hall:

Furniture, etc., as per inventory \$3,459 47

Agricultural Department :

Work animals.....	730 00
Farm implements, tools and machinery	1,384 60
Farm produce	638 00
Other farm stock.....	3,540 00

Total for Agricultural Department \$6,292 60

Mechanical Department :

Tools and machinery.....	\$4,894 73
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Chemical Department:

Apparatus, etc.....	\$3,245 16
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Physical Department :

Apparatus, etc	\$2,168 16
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Mathematical Department :

Surveying and engineering instruments.....	\$1,423 55
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English Department :

Maps, etc	\$45 00
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Library :

Books and fixtures.	\$2,295 87
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Inventories of all property of the college under charge of the several departments are on file in this office, as required by resolution of the Board of Directors.

Vouchers have been filed in the Comptroller's Office for State appropriation, amounting to \$40,027.10, and also for money drawn for State students, amounting to \$9,879.42, and for suit State vs. Peter Winter, \$800. I submit herewith list of all warrants paid by treasurer from January 1, 1883, to January 5, 1885, marked Exhibit A.

Respectfully submitted.

LOUIS L. McINNIS,
Secretary and Treasurer.

EXHIBIT A.

List of warrants paid by Treasurer January, 1883 to January, 1885.

Date.	Warrant No.	Account.	In favor of.	Amount.
Jan. 1 to June 2, 1883.				
	107	Farm	C. C. Georgeson	\$43 15
	108	Expense	G. W. Norrell	61 45
	109	Board	W. C. Boyett	267 23
	110	Board	J. S. Fowlkes & Co.	604 92
	111	Personal	C. N. Bower	23 83
	112	Personal	J. W. Holland	15 00
	113	Expense	J. G. James	70 00
	114	Farm	C. C. Georgeson	16 15
	115	Farm	Bryan P. M.	6 10
	116	Improvements	Edrington & Howell (farm)	112 78
	117	Board	John Roehl	50 77
	118	Personal	W. Burkhardt	16 00
	119	Improvements	J. H. Snber (telephone)	9 00
	120	Improvements	J. G. Sessums	2 50
	121	Board	F. F. Hooper	27 50
	122	Farm	O. L. Tabor	16 56
	123	Board	B. Sbisá	405 23
	124	Expense	W. W. Hanway	6 65
	125	Farm	W. W. Hanway	18 50
	126	Improvements	F. Van Winkle (telephone)	18 55
	127	Expense	Bryan P. M.	3 10
	128	Personal	A. O. Watson	6 00
	129	Expense	Bryan P. M.	1 75
	130	Improvements	Wiggins & Simpson	20 95
	131	Improvements	Edrington & Howell, chem. and phys.	172 00
	132	Expense	L. Rubenstein	5 44
	133	Personal	D. H. Zachry	21 83
	134	Farm	Bryan P. M.	27 34
	135	Farm	Texas Express Co.	6 50
	136	Improvements	Wm. Koppe	714 00
	137	Personal	L. E. Cropt.	20 00
	138	Expense	Brazos Pilot	68 85
	138½	Expense	Edrington & Howell	3 85
	139	Board	Maria Adams	55 50
	140	Board	J. S. Fowlkes & Co.	66 00
	141		Deilah Humphreys	146 25
	142	Personal	G. H. Gibson	20 00
	143	Board	B. Sbisá	356 42
	144	Farm	P. P. Allen	44 16
	145	Board	John Roehl	21 45
	146	Farm	John G. James	4 05
	147	Board	W. C. Boyett	339 84
	148	Personal	F. C. von Rosenberg	25 20
	149	Personal	J. D. Heffy	23 33
	150	Personal	Thos. Harrison	23 33
	151	Expense	E. B. Pugh	5 76
	152	Expense	John G. James	70 00
	152½	Expense	Edrington & Howell	6 52
	153	Farm	P. P. Allen	31 96
	154	Expense	John G. James	60 25
	155	Board	Adeline Hill	45 37
	156	Board	Maria Adams	27 38
	157	Board	J. S. Fowlkes & Co.	102 62
	158	Board	J. E. Wilkerson	7 00
	159	Expense	E. Sessums	35 00
	160	Personal	J. C. Myers	20 00
	161	Expense	Peter Winter	23 00
	162	Personal	B. L. Smith	13 33
	163	Board	B. Sbisá	286 01
	164	Board	W. C. Boyett	269 76
	165	Board	John Roehl	16 80
	166	Improvements	J. H. Snber	3 75
	167	Personal	J. E. Wilkerson \$41, J. A. Calvert \$30	71 00
	168	Improvements	Garth & Griffiths	13 00
	169	Expense	M. Strickland & Co.	25 75
	170	Expense	Eclipse Stables	29 00
	171	Bookstore	Edrington & Howell	143 00
	172	Improvements	A. F. Parshall	72 90
	173	Personal	W. B. McCormick	10 00
	174	Shops	Webb Brothers	1 50
	175	Personal	S. L. Cook	28 35
	176	Board	J. S. Fowlkes & Co.	1,556 91
	177	Board	Adeline Hill	43 58

EXHIBIT A—continued.

Date.	Warrant No.	Account	In favor of.	Amount.
Jan. 1 to June 2, 1883.				
	178	Board	Maria Adams.....	\$25 50.
	179	Board	Delilah Humphreys.....	90 00
	180	Personal	W. F. Woodward.....	2 00
	181	Personal	W. A. Hassell.....	13 33
	182	Board	B. Sbisa.....	458 55
	183	Farm	P. P. Allen.....	67 94
	184	Expense.....	E. Sessums.....	30 00
	185	Expense.....	J. P. Radford.....	37 00
	186	Expense.....	Bryan P. M.....	1 75
	187	Expense.....	J. R. Cole.....	40
	188	Board	John Roehl.....	38 32
	189	Expense.....	W. H. Wilson.....	2 50
	190	Board	W. C. Boyett.....	274 30
	191	Board	Mrs. F. Boyett.....	16 17
	192	Expense.....	J. S. Fowlkes.....	8 51
	193	Personal	J. H. Suber.....	32 37
	194	Personal	J. J. Crook.....	12 30
	195	Expense.....	J. S. Fowlkes & Co.....	4 25
	196	Personal	J. P. Kennard.....	20 00
	197	Farm	W. H. McMinn.....	12 00
	198	Farm	Charles Carr.....	6 00
	199	Personal	G. Stouham.....	6 50
	200	Personal	Fisher, C. J.....	7 00
	201	Board	Delilah Humphreys.....	93 00
	202	Board	Maria Adams.....	29 25
	203	Board	Adeline Hill.....	34 12
	204	Expense.....	G. W. Norrell.....	1 75
	205	Shops	G. W. Norrell.....	6 25
	206	Expense.....	G. W. Norrell.....	4 75
	207	Farm	G. W. Norrell.....	55
	208	Board	J. S. Fowlkes & Co.....	712 80
	209	Farm.....	J. S. Fowlkes & Co.....	148 76
	210	Expense.....	J. S. Fowlkes (fiscal agent).....	200 00
	211	Personal	A. T. Patrick.....	17 00
	212	Improvements	Jim Chapman.....	8 00
	213	Expense.....	Jim Chapman.....	75
	214	Board	R. Sbisa.....	379 61
	215	Expense.....	E. Sessums.....	40 75
	216	Board	John Roehl.....	41 90
	217	Expense.....	J. P. Radford.....	30 00
	218	Farm	P. P. Allen.....	55 32
	219	Board	W. C. Boyett.....	285 02
	220	Board	Mrs. F. Boyett.....	18 75
	221	Board	John Roehl.....	10 00
	222	Board	J. E. Smith.....	31 35
	223	Expense.....	J. E. Smith.....	5 31
	224	Improvements	Edrington & Howell (math. inst.).....	99 50
	225	Improvements	Jacob Cole (telephone).....	3 00
	226	Expense.....	Brazos Pilot.....	50 00
	227	Expense.....	E. Sessums.....	2 25
	228	Shop	Garth & Griffiths.....	23 64
	229	Farm	Garth & Griffiths.....	3 30
	230	Expense.....	Bryan Enterprise.....	8 50
	231	Expense.....	J. W. Johnson.....	60
	232	Farm	W. B. Morse.....	3 00
	233	Improvements	T. P. Wooten.....	20 07
	234	Expense.....	T. P. Wooten.....	20 00
	235	Improvements	J. G. Sessums (tel-phone).....	3 00
	236	Expense.....	Galveston News.....	14 98
	237	Shops	Wm. Koppe.....	1 50
	238	Improvements	Wm. Koppe (chem. and phys.).....	38 50
	239	Farm	Wm. Koppe.....	3 55
	240	Improvements	Wm. Koppe.....	35 80
	241	Personal	W. R. P. Thompson.....	10 00
	242	Shops	B. Sbisa.....	3 00
	243	Improvements	J. H. Suber.....	4 15
	244	Improvements	B. Sbisa.....	4 00
	245	Shops	F. Van Winkle.....	6 50
	246	Improvements	F. Van Winkle (telephone).....	12 50
	247	Board	J. Suber.....	85 75
	248	Bookstore	J. R. Cole.....	12 10
	249	Farm	J. R. Cole.....	1 10
	250	Expense.....	Edrington & Howell.....	35 71
	251	Personal	R. C. Neal.....	12 00
	252	Expense.....	J. R. Fisk.....	20 00
	253	Expense.....	E. Sessums.....	20 00
	254	Expense.....	J. R. Radford.....	31 00

EXHIBIT A—continued.

Date.	Warrant No.	Account.	In favor of.	Amount.
Jan. 1 to June 2, 1883.				
	255	Expense.....	J. E. Smith.....	\$3 50
	256	Improvements	J. E. Smith.....	6 60
	257	Farm	T. P. Wooten.....	35 95
	258	Farm	T. P. Wooten.....	2 40
	259	Expense.....	G. F. Smedley	30 00
	260	Farm	P. P. Allen.....	106 53
	261	Board	Dehlah Humphreys.....	119 62
	262	Board	Maria Adams.....	34 50
	263	Board	Adeline Hill.....	34 87
	264	Improvements	J. H. Suber.....	12 00
	265	Board	F. F. Hooper.....	75 78
	266	Improvements	C. L. Kauffer.....	35 00
	267	Expense.....	Jim Chapman (farm).....	1 10
	268	Board	W. C. Boyett.....	281 26
	269	Board	Wm. T. Boyett.....	40 05
	270	Board	John Roehl.....	76 95
	271	Farm	T. P. Wooten.....	1 37
	272	Board	J. S. Fowlkes & Co.....	941 42
	273	Board	J. S. Fowlkes & Co.....	75 00
	274	Expense.....	J. S. Fowlkes & Co.....	13 00
	275	Board	H. Kernole.....	315 97
	276	Farm	W. W. Hanway.....	19 50
	277	State appr. 1883.....	B. Sbsa.....	2 00
	278	Improvements	B. Sbsa.....	5 00
	279	State appr. 1883.....	B. Sbsa.....	3 70
	280	Board	B. Sbsa.....	391 18
	281	State appr. 1883.....	Mitchell & Rowan	150 00
	282	Expense.....	L. L. McClunis.....	12 00
	283	State appr. 1883.....	J. P. Mitchell.....	3 50
	284	Shops	G. W. Norrell.....	1 25
	285	Shops	Wiggin & Simpson.....	1 96
	286	State appr. 1883.....	Coffman & Scott.....	125 50
	287	State appr. 1883.....	Mitchell & Rowan	12 30
	288	State appr. 1883.....	J. H. Suber, jr.....	71 55
	289	Improvements	J. W. Queen & Co. (math.).....	265 03
	290	Board	W. C. Boyett.....	138 52
	291	Board	Mrs. F. Boyett.....	19 50
	292	Board	B. Sbsa.....	427 72
	293	Board	F. F. Hooper.....	23 80
	294	Bookstore	F. Van Winkle	19 60
	295	Shops	F. Van Winkle	7 50
	296	Board	H. Kernole.....	59 19
	297	Farm	H. Kernole.....	15 65
	298	Profit and loss.....	F. Van Winkle.....	5 88
	299	Expense.....	C. J. Craue.....	11 80
	300	Expense.....	J. R. Cole.....	67 00
	301	Farm	P. P. Allen.....	67 07
	302	Improvements	Wm. Koppe.....	166 11
	303	Farm	Wm. Koppe.....	1 70
	304	Improvements	Wm. Koppe.....	12 30
	305	Board	John Roehl.....	34 65
	306	Board	Dehlah Humphreys.....	68 25
	307	Board	Maria Adams.....	14 25
	308	Board	Adeline Hill.....	22 87
	509	Expense.....	Clarke, Ryan & Howell.....	6 51
June 27, 1884	1	Personal	O. H. P. Williams, bal. due him.....	150 00
July 2.....	2	Board	J. H. Suber.....	29 10
	3	Expense.....	Henry Hill.....	50
	4	Expense.....	Jim Chapman.....	8 50
	5	Agricultural department	Jim Chapman.....	50
	6	Mechanical department	J. H. Suber.....	14 42
	7	Board	B. Sbsa.....	74 45
	8	Board	F. F. Hooper.....	45 88
	9	Board	W. C. Boyett.....	110 35
	10	Board	Mrs. F. Boyett.....	27 60
	11	Expense.....	Rev. S. H. Werlein.....	25 00
	12	Expense	Clarke, Bryan & Howell.....	5 29
	13	Profit and loss.....	A. O. Watson.....	5 10
	14	Profit and loss.....	Garth, Griffiths & Co.....	7 75
	15	Board	H. Kernole.....	59 90
July 9.....	16	Agricultural department	T. P. Wooten.....	4 00
	17	Expense.....	Bryan P. M.....	2 25
July 10.....	18	Expense.....	George W. Norrell.....	75
	19	Expense.....	J. E. Smith.....	5 50
July 16.....	20	Expense.....	Mack Hardy.....	2 00
	21	G. Gartner, dec'd.....	Mrs. I. Gartner.....	140 55
July 23.....	22	Agricultural department	P. P. Allen.....	9 00

EXHIBIT A—continued.

Date.	Warrant No.	Account.	In favor of.	Amount.
	23	Agricultural department.....	W. T. James.....	\$17 15
	24	Agricultural department.....	P. P. Allen.....	40 00
August 6...	25	Agricultural department.....	J. E. Smith.....	42 00
August 7...	26	Expense.....	L. W. Clark.....	392 50
	27	Board.....	H. Kernole.....	31 84
	28	Agricultural department.....	H. Kernole.....	1 20
	29	Expense.....	Galveston News.....	56 40
	30	Expense.....	E. Sessum.....	35 00
	31	Board.....	J. H. Suber.....	52 50
	32	Expense.....	J. A. Myers.....	10 00
	33	Prairie View Normal School.....	Galveston News.....	8 64
August 18...	34	Rep. and jup. mess hall.....	Fred Polsfoot.....	23 75
	35	Repair main building.....	Crowley & Walsh.....	116 55
August 20...	36	Board.....	Delilah Humphreys.....	26 00
	37	Agricultural department.....	William Reddin.....	10 00
	38	Agricultural appropriation.....	Cole Bros.....	129 92
	39	Repair main building.....	O. Locatone.....	20 00
	40	Repair main building.....	J. Crowley.....	40 00
	41	Repair mess hall.....	P. C. Taylor.....	175 80
	42	Board.....	J. H. Suber.....	83 12
	43	Repair main building.....	W. C. Wilcox.....	103 12
	44	Repair mess hall.....	W. C. Wilcox.....	59 45
	45	Contingent appropriation.....	K. Baptisott.....	20 00
	46	Contingent appropriation.....	E. Sessum.....	6 00
	47	Contingent appropriation.....	E. Sessum.....	6 00
	48	Canceled.....		
	49	Repair mess hall.....	James Leonard.....	77 00
September 1.	50	Repair professors houses.....	W. C. Boyett.....	3 50
	51	Agricultural department.....	Sam Luther.....	10 00
	52	Agricultural department.....	Dave Salm.....	20 00
	53	Repair mess hall.....	T. W. Mitchell.....	28 00
	54	Agricultural department.....	Josiah Riggs.....	7 50
	55	Repair mess hall.....	J. G. Sessum.....	13 50
	56	Repair mess hall.....	Josiah Riggs.....	75
	57	Canceled.....		
	58	Agricultural department.....	Frank.....	78
	59	Agricultural appropriation.....	H. L. Thomson.....	100 00
	60	Repair mess hall.....	C. F. Miller.....	34 05
	61	Personal.....	P. P. Allen.....	1 70
September 5.	62	Repair mess hall.....	Frank Hughes.....	2 00
September 7.	63	Repair mess hall.....	Jerry Marion.....	10 00
September 8.	64	Repair mess hall.....	Josiah Riggs.....	7 50
	65	Repair mess hall.....	Peter Winter.....	139 50
	66	Repair mess hall.....	L. F. Battle.....	43 78
	67	Repair mess hall.....	W. J. Moore.....	56 25
	68	Expense.....	Dallas Herald.....	22 50
	69	Expense.....	Free Press.....	18 00
	70	Expense.....	Rusk County News.....	5 00
	71	Repair mess hall.....	Crowley & Walsh.....	127 13
	72	Expense.....	Charles Claydon.....	1 25
	73	Repair mess hall.....	Richard Davis.....	55 00
	74	Expense.....	E. Sessum.....	20 00
	75	Repair main building.....	Mike Ryan.....	120 00
	76	Repair main building.....	O. Locatone.....	28 00
	77	Repair main building.....	John Crowley.....	57 50
	78	Agricultural appropriation.....	J. C. Roberts.....	285 79
	79	Expense.....	E. Sessum.....	3 35
	80	Expense.....	E. Sessum.....	3 75
	81	Board.....	J. E. Smith.....	14 25
	82	Repair mess hall.....	Olive & Sternberg.....	123 89
	83	Repair main building.....	Crowley & Walsh.....	25 00
	84	Repair mess hall.....	C. L. Deaton.....	55 00
	85	Contingent appropriation.....	Bob Webster.....	29 32
	86	Repair mess hall.....	L. F. Battle.....	13 18
	87	Board.....	J. H. Suber.....	83 10
	88	Repair mess hall.....	Peter Winter.....	192 10
	89	Agricultural department.....	Josiah Riggs.....	28 98
	90	Contingent appropriation.....	Loomis Jeter.....	2 50
	91	Expense.....	George Pfeuffer.....	3 00
	92	Repair main building.....	George Phatzer.....	122 90
	93	Repair main building.....	Miller & Lane.....	50 00
	94	Canceled.....		
Sept. 8.....	95	Repair main building.....	R. M. Davis.....	71 00
	95	Repair mess hall.....	R. M. Davis.....	30 00
	96	Expense.....	Texas Post.....	25 00
Sept. 19.....	97	Expense.....	San Antonio Express.....	20 00
Sept. 22.....	98	Repair mess hall.....	Peter Winter.....	134 60
	99	Agricultural department.....	Josiah Riggs.....	26 52

EXHIBIT A—continued.

Date.	Warrant No.	Account.	In favor of.	Amount.
.....	100	Agricultural department.....	James Cole.....	3 06
.....	101	Repair mess hall.....	G. J. Ogle.....	20 00
.....	102	Agricultural appropriation.....	J. P. Radford.....	30 00
.....	103	Repair main building.....	Müller & Lane.....	280 00
.....	104	Repair mess hall.....	Pat. Phillips.....	40 00
.....	105	Repair mess hall.....	O. Locatone.....	22 00
Sept. 24	106	Repair mess hall.....	Wiggin & Simpson.....	81 78
.....	106	Repair professors' houses.....	Wiggin & Simpson.....	122 70
.....	107	Agricultural appropriation.....	Garth, Griffiths & Co.....	154 73
.....	108	Repair main building.....	Garth, Griffiths & Co.....	11 79
Sept. 25	109	Repair main building.....	Miller & Lane.....	515 50
.....	110	Expense.....	J. S. Fowlke & Co.....	9 63
.....	111	Room furniture.....	Lottman Bros.....	304 19
.....	112	Repair mess hall.....	F. Van Winkle.....	108 41
.....	113	Expense.....	Sweet & Knox.....	58 80
.....	114	Repair mess hall.....	Mike Ryan.....	62 50
.....	115	Contingent appropriation.....	Gid. Morte.....	5 66
Sept. 26	116	Repair mess hall.....	J. H. Floyd.....	4 50
.....	117	Expense.....	Geo. Bogliu.....	10 16
.....	118	Contingent appropriation.....	B. Sbisa.....	26 00
.....	119	Grocery appropriation.....	Geo. Slaughter.....	8 90
.....	120	Agricultural department.....	Don Salome.....	11 33
.....	121	Agricultural appropriation.....	J. R. Odum.....	60 00
Sept. 27	122	Agricultural appropriation.....	J. P. Radford.....	2 00
.....	123	Repair mess hall.....	Cole Bros.....	231 88
Sept. 28	124	Repair mess hall.....	G. W. Jenkins.....	70 00
.....	125	Agricultural department.....	Louis Jackson.....	20 78
.....	126	Expense.....	L. L. McInnis.....	3 45
.....	127	Repair main building.....	Geo. W. Norrell.....	212 00
.....	128	Repair mess hall.....	Geo. W. Norrell.....	4 50
.....	129	Repair mess hall.....	Wooten & Boatright.....	59 30
.....	130	Agricultural department.....	Wooten & Boatright.....	5 25
.....	131	Repair mess hall.....	M. Bonneville.....	23 70
.....	132	Repair mess hall.....	C. L. Kanter.....	36 35
.....	133	Contingent appropriation.....	H. Kemole.....	387 57
.....	134	Agricultural department.....	H. Kemole.....	8 35
.....	135	Repair mess hall.....	Garth, Griffiths & Co.....	9 00
.....	136	Repair professors' houses.....	W. C. Wilcox.....	24 84
.....	137	Profit and loss.....	P. C. Allen.....	5 00
.....	138	Repair mess hall.....	Peter Winter.....	207 37
.....	139	Contingent appropriation.....	W. C. Boyett.....	58 06
.....	140	Repair mess hall.....	W. J. Moore.....	51 50
.....	141	Repair mess hall.....	John Crowley.....	85 00
.....	142	Agricultural department.....	Sam Luther.....	20 00
.....	143	Repair mess hall.....	Josiah Riggs.....	17 08
.....	144	Repair mess hall.....	Barney Teague.....	35 25
.....	145	Agricultural department.....	Jim Chapman.....	2 84
.....	146	Repair mess hall.....	Wm. Nelson.....	3 37
.....	147	Contingent appropriation.....	B. Sbisa.....	177 55
.....	148	Repair mess hall.....	S. J. Ogle.....	24 00
Oct. 3	149	Board.....	J. H. Suber.....	43 25
.....	150	Repair mess hall.....	L. F. Battle.....	25 00
.....	151	Expense.....	J. E. Smith.....	8 43
.....	152	Contingent appropriation.....	C. F. Miller.....	104 70
.....	153	State vs. P. Winter.....	Peter Winter.....	700 00
.....	154	Agricultural department.....	H. H. Dinwiddie.....	1 20
.....	155	Expense.....	J. A. Myers.....	4 00
.....	156	Expense.....	Statesman Publishing Company.....	4 00
.....	157	Expense.....	R. M. Smith.....	3 00
.....	158	Expense.....	Brazos Pilot.....	3 60
.....	159	Repair mess hall.....	T. R. Franklin.....	129 65
.....	160	Repair mess hall.....	Wooten & Boatright.....	17 52
.....	161	Agricultural department.....	W. W. Hauway.....	26 25
.....	162	Contingent appropriation.....	Jas. Leonard.....	35 00
.....	163	Repair mess hall.....	John Crowley.....	26 40
.....	164	Board.....	W. D. Cleveland.....	809 37
.....	165	State vs. P. Winter.....	J. S. F. & Co.....	2 25
.....	166	Contingent appropriation.....	Josiah Riggs.....	7 32
.....	167	Repair mess hall.....	Peter Winter.....	64 75
.....	168	Repair mess hall.....	Sam Ogle.....	24 00
Oct. 6	169	Repair mess hall.....	M. Wickensheimmer.....	5 00
.....	170	Agricultural department.....	Geo. Curtis.....	3 00
.....	171	Expense.....	J. A. Myers.....	12 20
.....	172	Repair mess hall.....	Jim Chapman.....	10 50
.....	173	Agricultural department.....	W. T. James.....	13 75
.....	174	Expense.....	H. H. Dinwiddie.....	1 60
.....	175	Bookstore.....	H. H. Dinwiddie.....	75 60
.....	176	Chemistry appropriation.....	H. H. Dinwiddie.....	20 82

EXHIBIT A—continued.

Date.	Warrant No.	Account.	In favor of.	Amount.
Oct. 13	177	Repair mess hall	B. M. Nelson	\$7 00
	178	Repair professors' houses	P. Winter	71 50
	179	Expense	H. H. Dinwiddie	12 00
	180	Repair main building	G. W. Norrell	8 35
	181	Board	J. H. Suber	42 00
	182	Repair professors' houses	J. L. Mayo	121 50
	183	Repair professors' houses	S. J. Ogle	12 00
	183	Repair mess hall	S. J. Ogle	12 00
	184	Repair mess hall	W. J. Moore	22 50
	185	Mechanical appropriation	P. C. Taylor	170 30
	186	Repair professors' houses	Peter Winter	9 50
	187	Bookstore	H. H. Dinwiddie	63 83
	188	Contingent appropriation	F. F. Hooper	13 73
	189	Repair mess hall	John Van & Co	35 57
Oct. 17	190	Expense	August Hoppe	10 00
	191	Repair mess hall	E. R. Dove	23 00
	192	Personal	Crowley & Walsh	110 01
	193	Contingent appropriation	H. H. Dinwiddie	6 85
	194	Bookstore	H. H. Dinwiddie	8 05
	195	Contingent appropriation	Sami Gerais	10 00
	196	Board	J. H. Suber	26 75
	197	Repair professors' houses	S. J. Ogle	26 75
	198	Board	John Roehl	46 80
	199	Board	J. E. Smith	10 06
Oct. 22	200	Expense	M. Strickland & Co.	38 25
Oct. 25	201	Repair mess hall	Henry Hill	5 25
	202	Repair mess hall	James Chapman	4 81
Oct. 27	203	Expense	R. H. Whillock	1 78
	204	Agricultural appropriation	G. W. Curtis	6 50
	205	Agricultural appropriation	Village Mills Co.	381 46
	206	Personal	W. C. McLelland	18 06
	207	Agricultural appropriation	Long & Co	210 00
	208	Repair mess hall	Panot Pettit	3 00
	209	Repair mess hall	B. Sbsa	5 00
	210	Repair mess hall	A. D. McConines	2 60
	211	Repair mess hall	O. Locatone	60 00
Oct. 30	212	Agricultural appropriation	F. M. Scott and various parties	1,066 81
	213	Agricultural appropriation	Coffman & Scott	170 00
	214	Repair mess hall	R. M. Davis	60 00
	215	Board	G. W. Norrell	4 00
	216	Agricultural appropriation	G. W. Norrell	85
Oct. 31	217	Repair professors' houses	G. W. Norrell	61 90
	218	Contingent appropriation	G. W. Norrell	6 50
	219	Mechanical department	G. W. Norrell	3 15
	220	Medical attendance	G. W. Norrell	35 05
	221	Contingent appropriation	Simmons & Shaw	38 06
	222	Repair professors' houses	Peter Meny	25 00
	223	Contingent appropriation	Peter Meny	25 00
	224	Repair mess hall	Peter Meny	62 50
	225	Agricultural appropriation	Andy Houston	6 50
	226	Chemical appropriation	J. W. Queen & Co	356 00
	227	Bookstore	H. H. Dinwiddie	23 79
	228	Bookstore	H. H. Dinwiddie	2 20
	229	Board	W. D. Cleveland	51 35
	230	Expense	P. H. Hennessey	5 50
	231	Agricultural department	O. L. Taber & Bro.	24 76
	232	Repair professors' houses	D. P. Smythe	95 45
	233	Agricultural department	D. P. Smythe	9 75
	234	Agricultural appropriation	Lang & Co.	61 61
	235	Expense	J. Wickersheimer	20 00
	236	Agricultural appropriation	M. Wickersheimer	15 00
	237	Board	W. C. Boyett	277 55
	238	Board	Mrs. F. Boyett	37 60
	239	Agricultural department	O. L. Miller	4 25
	240	Expense	H. H. Dinwiddie	42 00
	241	Board	W. D. Cleveland	60 40
	242	Repair mess hall	T. W. Mitchell	10 80
	243	Agricultural department	J. S. Fowlkes & Co.	16 53
	244	Board	B. Sbsa	150 00
	245	Medical attendance	J. D. Read	50 00
	246	Agricultural department	G. W. Curtis	35 00
	247	Agricultural appropriation	Jonat Riggs	20 00
	248	Board	B. Sbsa	534 48
	249	Agricultural appropriation	J. A. Stewart	15 00
	250	Board	F. F. Hooper	51 82
	251	Chemical appropriation	Charles Fink	17 00
	252	Contingent appropriation	Charles Fink	25 00
Nov. 3	253	Agricultural department	J. H. Suber	10 70

EXHIBIT A—continued.

Date.	Warrant No.	Account.	In favor of.	Amount.
Nov. 3	254	Contingent appropriation.....	Andy Houston	\$8 25
	255	Board	Delilah Humphreys	120 75
	256	Agricultural appropriation.....	Peter Winter	39 00
	257	Repair mess hall.....	Pat Phillips	180 00
Nov. 5	258	Agricultural appropriation.....	T. M. Lowe	15 00
	259	Agricultural department.....	W. M. Lyons.....	3 50
Nov. 6	260	Agricultural appropriation.....	L. F. Battle	8 75
	261	Agricultural appropriation.....	T. M. Lowe	8 00
	262	Agricultural appropriation.....	Witson Reid	315 00
	263	Contingent appropriation.....	Panot Pettit.....	5 00
Nov. 7	264	Mathematical department.....	R. F. Smith	60 00
Nov. 9	265	Agricultural appropriation.....	W. J. Moore	9 00
Nov. 10	266	Mechanical department.....	R. H. Whitlock.....	15 50
	267	Repair main building.....	A. Harbers	72 00
	268	Board	L. F. Battle	20 00
	269	Agricultural appropriation.....	Alexander Zilinski.....	43 00
	270	Agricultural appropriation.....	J. S. Fowlkes & Co.....	93 00
Nov. 12	271	Repair main building.....	R. M. Davis	30 00
Nov. 13	272	Agricultural appropriation.....	Peter Meny.....	10 50
	273	Agricultural appropriation.....	Sam Smith	3 33
	274	Agricultural appropriation.....	Alexander Zilinski.....	88 20
	275	Repair mess hall.....	F. Van Winkle.....	20 50
Nov. 15	276	Personal	C. F. Matkin	9 55
	277	Mechanical appropriation.....	R. H. Whitlock.....	25 25
Nov. 15	278	Board	H. Kernole	25 12
	279	Chemical appropriation.....	H. Kernole	18 35
	280	Contingent appropriation.....	H. Kernole	15 00
	281	Repair mess hall	H. Kernole	8 00
	282	Repair main building.....	H. Kernole	1 00
	283	Mechanical appropriation.....	H. Kernole	20 75
	284	Agricultural appropriation.....	T. R. Franklin	22 55
	285	Repair mess hall.....	Wilkins & Dey	22 24
	286	Book store.....	M. Bonneville.....	127 50
	287	Repair mess hall.....	Houston Post.....	37 20
	288	Expense	J. S. Fowlkes & Co.....	1 85
Nov. 19	289	Expense	C. C. Seale	300 00
	290	Agricultural appropriation.....	Eclipse Stable	1 50
	291	Agricultural appropriation.....	F. F. Bradway	7 75
	292	Agricultural appropriation.....	G. W. Curtis.....	41 55
	293	Agricultural appropriation.....	O. Locatone	1 00
	294	Repair main building.....	J. S. Fowlkes & Co.....	21 60
	295	Agricultural appropriation.....	Ernst Londonberg.....	317 87
Nov. 23	296	Agricultural department.....	D. T. Rainwater & Co.....	107 35
Dec. 3	297	Board	L. F. Battle	13 25
	298	Contingent appropriation.....	Ernst Londonberg.....	52 75
	299	Agricultural appropriation.....	M. M. Wilson	52 90
	300	Medical attendance	J. R. Read	50 00
	301	Board	Delilah Humphreys.....	90 00
	302	Board	Adeline Hill	30 37
	303	Board	B. Sbsa	150 00
	304	Board	T. W. Eaton	3 80
	305	Repair mess hall.....	J. Wilcher & Co.....	287 50
	306	Repair professors' houses.....	J. R. Fisk	20 00
	307	Expense	J. Wilcher & Co.....	174 00
	308	Repair main building.....	J. Wilcher & Co.....	69 00
	309	Repair mess hall.....	J. Wilcher & Co.....	6 00
	310	Contingent appropriation.....	A. Zdragil	20 00
	311	Expense	W. C. Boyett.....	272 00
	312	Board	L. L. McInnis.....	100 80
	313	Expense	Charles Fink	70 00
	314	Chemical appropriation	R. M. Davis	55 95
	315	Repair main building.....	James Corbin	1 50
Dec. 4	316	Repair main building.....	J. Wickersheimer	20 00
	317	Expense	M. Wickersheimer	20 00
	318	Agricultural appropriation.....	R. F. Smith	60 00
Dec. 5	319	Mathematical department.....	B. Sbsa	503 37
	320	Board	B. Westermann & Co.....	4 24
Dec. 7	321	Chemical appropriation.....	M. Bonneville.....	31 15
	322	Agricultural appropriation.....	O. L. Tabor & Bro.....	7 55
	323	Agricultural department	W. W. Hanway & Son	73 75
	324	Agricultural department.....	J. W. Johnson.....	211 91
	325	Board	F. F. Hooper.....	8 98
	326	Board	Henry Holt & Co.....	8 49
	327	Book store.....	Lothman Bros	28 10
	328	Room furniture.....	L. W. Clark.....	12 35
	329	Agricultural department.....	L. W. Clark.....	12 35
	330	Chemical department.....	Wiggin & Simpson.....	16 35
	330	Mechanical appropriation.....		

EXHIBIT A—continued.

Date.	Warrant No.	Account.	In favor of.	Amount.
.....	331	Mechanical department	C. L. Kaufer	\$5 92
.....	332	Repair main building.....	G. W. Norrell.....	51 20
.....	333	Room furniture.....	G. W. Norrell.....	15 60
.....	334	Repair professors' houses.....	G. W. Norrell.....	16 75
.....	335	Agricultural department.....	G. W. Curtis.....	49 00
.....	336	Agricultural department.....	Ahrenbeck Bros.....	23 20
.....	337	Medical attendance.....	G. W. Norrell.....	25 25
.....	338	Agricultural appropriation.....	Josiah Riggs.....	23 31
.....	339	Mechanical appropriation.....	W. J. Moore.....	42 00
.....	340	Agricultural appropriation.....	James Leonard.....	186 03
.....	341	Board	H. Kernole.....	480 55
.....	342	Personal	J. F. Graves.....	27 50
.....	343	Mechanical appropriation.....	Houston & Texas Central Railway	180 00
.....	344	Contingent appropriation.....	Garth, Griffiths & Co.....	20 00
.....	345	Repair mess hall.....	Garth, Griffiths & Co.....	62 00
.....	346	Chemical appropriation.....	Garth, Griffiths & Co.....	69 53
.....	347	Agricultural appropriation.....	Garth, Griffiths & Co.....	16 86
.....	348	Board	Frank Hill.....	85 25
.....	349	Agricultural appropriation.....	G. W. Curtis.....	60 00
.....	350	Repair main building.....	O. Locatone	6 00
.....	351	Expense.....	W. P. Hardeman.....	28 15
.....	352	Agricultural appropriation.....	Houston & Texas Central Railway	12 00
.....	353	Board	J. E. Smith.....	35 25
.....	354	Board	Adeline Hill.....	20 72
.....	355	Mechanical appropriation.....	W. J. Moore.....	45 00
.....	356	Mechanical appropriation.....	W. J. Moore.....	20 00
.....	357	Repair main building.....	Charles Hardvichart.....	49 50
.....	358	Board	J. H. Suber.....	2 62
.....	359	Agricultural appropriation.....	Deere, Mansur & Co	15 30
.....	360	Chemical appropriation	Com. Gas Ma. Co	221 97
.....	361	Repair professors' houses.....	D. P. Smythe.....	7 15
.....	362	Agricultural department.....	Peter Keifer	2 50
.....	363	Board	Delilah Humphreys.....	76 45
.....	364	Contingent appropriation.....	Peter Winter.....	14 00
.....	365	Agricultural appropriation.....	Peter Winter.....	6 50
.....	366	Medical attendance.....	J. H. Suber.....	35 00
.....	367	Mathematical department.....	J. D. Read.....	50 00
.....	368	Personal	R. F. Smith.....	60 00
.....	369	Expense.....	J. C. Farley	21 00
.....	370	Repair main building.....	J. R. Fisk.....	20 00
.....	371	Medical attendance	G. W. Norrell.....	29 90
.....	372	Expense.....	G. W. Norrell.....	3 75
.....	373	Chemical appropriation	Carl Seibert.....	16 00
.....	374	Personal	Charles Fink.....	64 92
.....	375	Board	E. B. Jackson	28 80
.....	376	Board	B. Sbisa.....	150 00
.....	377	Expense.....	B. Sbisa.....	416 33
.....	378	Agricultural department.....	J. E. Smith.....	6 60
.....	379	Agricultural department.....	G. W. Curtis.....	59 50
.....	380	Mechanical department.....	G. W. Curtis.....	1 05
.....	381	Board	Texas Transportation and Lumber Co..	256 31
.....	382	Chemical appropriation.....	W. C. Boyett.....	186 39
.....	383	Agricultural appropriation.....	Panot Pettit.....	1 50
.....	384	Expense.....	M. Wickershammer.....	20 00
.....	385	Agricultural department.....	A. Z. Tragil.....	22 00
.....	386	Repair mess hall.....	William Joels.....	5 40
.....	387	Mechanical appropriation.....	Wooten & Boatright.....	8 50
.....	388	Repair professors' houses.....	Wooten & Boatright.....	3 50
.....	389	Contingent appropriation.....	Wooten & Boatright.....	50 00
.....	390	Board	Cleance Bros.....	4 00
.....	391	Expense.....	J. A. Myers.....	1 75
.....	392	Board	J. W. Johnson.....	75 98
.....	393	Chemical appropriation.....	William Koppe.....	40 35
.....	394	Agricultural appropriation.....	Village Mills Co.....	162 04
.....	395	Repair main building.....	G. W. Norrell.....	3 95
.....	396	Repair mess hall.....	O. L. Tabor & Bro.....	5 15
.....	397	Mechanical appropriation.....	Houston Post Publishing Co	32 40
.....	398	Agricultural appropriation.....	Garth, Griffiths & Co.....	4 66
.....	399	Contingent appropriation.....	Garth, Griffiths & Co.....	9 30
.....	400	Chemical appropriation.....	Garth, Griffiths & Co.....	19 25
.....	401	Mechanical appropriation.....	James W. Queen & Co.....	31 60
.....	402	Room furniture.....	W. W. Kenneday & Son.....	4 60
.....	403	Chemical appropriation	H. Kernole.....	50
.....	404	Board	H. Kernole.....	21 05
.....	405	Board	H. Kernole.....	388 31
.....	406	Agricultural department	Mitchell & Rowan	10 50
.....	407	Chemical appropriation	T. W. Eaton	2 50

EXHIBIT A—continued.

Date.	Warrant No.	Account.	In favor of.	Amount.
	408	Mechanical appropriation.....	Crowley & Walsh.....	\$36 40
	409	Mechanical appropriation.....	P. E. Wellman.....	75 00
	410	Agricultural appropriation.....	J. H. Suber.....	78 00
	411	Mathematical department.....	R. F. Smith.....	60 00
	412	Mechanical appropriation.....	H. Buckholts.....	130 00
	413	Personal.....	E. A. Seale.....	13 50
	414	Agricultural appropriation.....	J. S. Proctor.....	14 60
	415	Medical attendance.....	G. W. Norrell.....	30 80
	416	Agricultural department.....	Cole Bros.....	75
	417	Bookstore.....	Gins, Heath & Co.....	7 32
	418	Agricultural department.....	G. W. Norrell.....	4 85
	419	Mathematical appropriation.....	T. F. Randolph.....	59 25
	420	Chemical appropriation.....	Comb. Gas Machine Co.....	17 30
	421	Repair main building.....	G. W. Norrell.....	17 61
	422	Mechanical appropriation.....	Wiggin & Simpson.....	6 25
	423	Agricultural department.....	O. L. Tabor & Bro.....	46 37
	424	Agricultural department.....	White & Nixon.....	2 20
	425	Agricultural appropriation.....	M. Bonneville.....	88 41
	426	Repair mess hall.....	M. Bonneville.....	96 58
	427	Contingent appropriation.....	M. Bonneville.....	7 70
	428	Contingent appropriation.....	J. R. Fisk.....	26 00
	429	Board.....	E. Kellner.....	33 32
	430	Board.....	Carson, Sewalt & Co.....	332 65
	431	Agricultural department.....	W. H. Webb.....	5 05
	432	Medical attendance.....	J. D. Read.....	75 00
	433	Agricultural appropriation.....	M. Wickershammer.....	21 50
	434	Repair mess hall.....	J. L. Mayo.....	747 35
	435	Board.....	W. C. Boyett.....	132 19
	436	Expense.....	Anton Josapo.....	25 00
	437	Board.....	B. Sbisaa.....	150 00
	438	Expense.....	J. R. Fisk.....	20 00
	439	Chemical appropriation.....	Charles Fisk.....	75 00
	440	Repair main building.....	T. W. Jenkins.....	76 25
	441	Board.....	Adeline Hill.....	42 75
	442	Board.....	Delilah Humphreys.....	95 25
	443	Expense.....	C. Suter.....	20 00
	444	Agricultural department.....	G. W. Curtis.....	55 85
	445	Expense.....	L. L. McInnis.....	16 80
	446	Agricultural appropriation.....	Dobsil, Mansom & Co.....	60 34
	447	Agricultural appropriation.....	Josiah Riggs.....	10 00
	448	Board.....	B. Sbisaa.....	412 87
	449	Agricultural appropriation.....	J. H. Suber.....	9 62
	450	Mechanical appropriation.....	G. H. Echols.....	7 20
	451	Mechanical appropriation.....	W. M. McGehee.....	13 16
	452	Mechanical appropriation.....	W. M. McGehee.....	8 30
	453	Agricultural appropriation.....	W. M. McGehee.....	2 50
	454	State vs. Peter Winter.....	D. C. Barmore.....	4 00
	455	Mechanical appropriation.....	Houston Brass Works Co.....	390 00
	456	Mechanical appropriation.....	Crowley & Walsh.....	66 75
	457	Agricultural appropriation.....	Peter Hagel.....	19 50
	458	Agricultural appropriation.....	Coffman & Scott.....	200 00
	459	Mechanical appropriation.....	Jim Chapman.....	2 78
	460	Agricultural department.....	Ahrenbeck Bros.....	23 20
	461	Agricultural appropriation.....	Albert Dickinson.....	58 01
	462	Chemical appropriation.....	C. L. Kauffer.....	3 50
	463	Mechanical department.....	C. L. Kauffer.....	1 28
	464	Contingent appropriation.....	C. L. Kauffer.....	70
	465	Mechanical department.....	Kauffer & Hoffman.....	2 30
	466	Agricultural appropriation.....	Garth, Griffiths & Co.....	2 66
	467	Mechanical appropriation.....	Village Mills Company.....	180 25
	468	Contingent appropriation.....	William Koppe.....	99 01
	469	Agricultural appropriation.....	Charles Kessler & Son.....	3 13
	470	Mechanical appropriation.....	Wiggin & Simpson.....	19 00
	471	Agricultural department.....	W. H. Webb.....	3 90
	472	Repair mess hall.....	William Koppe.....	273 45
	473	Agricultural department.....	William Koppe.....	22 63
	474	Mechanical department.....	William Koppe.....	8 20
	475	Agricultural appropriation.....	L. B. Giles.....	29 05
	476	Chemical appropriation.....	James W. Queen & Co.....	379 77
	477	Mechanical appropriation.....	Jim Chapman.....	3 00
	478	Mechanical appropriation.....	J. S. Brown & Co.....	26 03
	479	Mechanical appropriation.....	J. P. Leonard.....	45 00
	480	Expense.....	G. H. & S. A. Ry.....	4 10
	481	Contingent appropriation.....	Smith-Davis Manufacturing Company.....	34 60
	482	Mechanical appropriation.....	H. B. Works.....	130 00
	483	Agricultural appropriation.....	G. W. Curtis.....	4 44
	484	Agricultural department.....	Paul Greig.....	122 83
	485	Bookstore.....	D. Appleton & Co.....	20 25

EXHIBIT A—continued.

Date.	Warrant No.	Account.	In favor of.	Amount.
	486	Bookstore	Wilkins & Adey	4 50
	487	Board	Carson, Sewall & Co.....	22 00
	488	Mechanical appropriation.....	W. M. McGehee.....	81 00
	489	Mechanical appropriation.....	H. B. Chase.....	110 00
	490	Board	— Franklin.....	119 60
	491	Agricultural appropriation.....	J. S. Covayson.....	16 50
	492	Mechanical appropriation.....	J. H. Suber	30 00
	493	Repair main building.....	Village Mills Company.....	147 20
	494	Board	Carson, Sewall & Co.....	306 68
	495	Medical attendance.....	J. D. Read.....	57 00
	496	Board	Delilah Humphreys	87 75
	497	Agricultural department.....	G. W. Curtis.....	64 05
	498	Board	Adeline Hill.....	35 25
	499	Board	W. C. Boyett.....	270 57
	500	Board	B. Sbisa	365 12
	501	Board	B Sbisa	150 00
	502	Expense.....	J. R. Fisk	20 00
	503	Chemical appropriation.....	Charles Fink.....	36 00
	504	Contingent appropriation.....	Charles Fink.....	31 68
	505	Mathematical department.....	R. F. Smith.....	60 00
	506	Agricultural appropriation.....	J. H. Suber	19 00
	507	Mechanical appropriation.....	W. M. McGehee.....	20 02
	508	Expense.....	J. E. Smith.....	12 20
	509	Mechanical appropriation.....	Matt. Fitzgerald.....	13 33
March 5.....	510	Repair main building.....	J. M. Wilcher	75 00
	511	Repair mess hall.....	J. M. Wilcher	99 00
	512	Repair professors' houses.....	J. M. Wilcher	12 00
	513	Chemical appropriation.....	J. M. Wilcher	18 00
	514	Contingent appropriation.....	J. M. Wilcher	3 00
	515	Mechanical appropriation.....	J. M. Wilcher	4 50
	516	Expense.....	Carl Seibert.....	20 00
	517	Expense.....	A. Zragel.....	20 00
	518	Agricultural department.....	G. W. Norrell.....	6 45
	519	Chemical appropriation.....	G. W. Norrell.....	14 20
	520	Repair main building	G. W. Norrell.....	18 75
	521	Chemical appropriation.....	George Dumke.....	2 95
	522	Board	Ricker & Lee.....	7 01
	523	Chemical department	Texas Lamp and Oil Company	13 35
	524	Bookstore	B. Westerman.....	38 08
	525	Agricultural department.....	J. W. English	4 00
	526	Mechanical appropriation.....	William Koppe.....	4 20
	527	Repair mess hall.....	William Koppe.....	10 18
	528	Contingent appropriation.....	William Koppe.....	80
	529	Agricultural appropriation.....	William Koppe.....	14 65
	530	Expense.....	Erie Teleg. & Telph. Co.....	60 00
	531	Bookstore	Irwin, Blakeman, faylor & Co.....	21 06
	532	Agricultural department.....	W. H. Webb	3 50
	533	Agricultural department.....	O. L. Tabor & Bro	40 70
	534	Chemical appropriation.....	H. & T. C. Ry.....	15 49
	535	Agricultural appropriation.....	J. S. Brown & Co	7 73
	536	Medical attendance.....	G. W. Norrell.....	9 90
	537	Agricultural appropriation.....	Texas Tram and Lumber Company	93 59
March 7.....	538	Chemical appropriation.....	Jim Chapman.....	1 30
	539	Contingent appropriation	R. H. Hennessy & Co.....	60 00
	540	Personal	C. A. Depeere	19 00
March 8.....	541	Mechanical appropriation.....	Nat. Sheet Met. R. Co.	240 00
March 10.....	542	Mechanical appropriation.....	H. & T. C. Ry.....	35 34
	543	Agricultural appropriation.....	G. W. Curtis.....	17 75
March 13.....	544	Contingent appropriation	H. Kernole	15 31
	545	Board	H. Kernole	161 36
March 15.....	546	Agricultural appropriation.....	J. H. Suber	15 00
	547	Mechanical appropriation.....	W. M. McGehee.....	22 25
	548	Mechanical appropriation.....	P. E. Willman.....	32 50
March 17.....	549	Agricultural department.....	E. Kellner	7 00
March 19.....	550	Mechanical appropriation.....	W. P. Hardeman.....	15 50
	551	Agricultural appropriation.....	M. Bonneville.....	51 47
	552	Contingent appropriation.....	M. Bonneville.....	16 95
	553	Repair professors' houses.....	J. M. Wilcher	33 00
	554	Contingent appropriation.....	J. M. Wilcher	6 00
March 24.....	555	Mechanical appropriation.....	J. S. Brown & Co.....	38
	556	Agricultural appropriation.....	J. S. Brown & Co.....	1 50
	557	Expense.....	Charles DeMorse.....	10 06
	558	Agricultural department.....	Garth, Griffiths & Co.....	9 90
	559	Board	Ricker & Lee.....	18 15
	560	Chemical appropriation.....	W. W. Other.....	4 58
	561	Expense.....	J. S. Fowlkes & Co.....	30 00
	562	Expense.....	J. A. Myers	5 85
	563	Agricultural department.....	G. W. Curtis.....	5 50

EXHIBIT A—continued.

Date.	Warrant No.	Account	In favor of.	Amount.
March 26.....	564	Mechanical appropriation.....	J. L. Mayo	\$170 00
.....	565	Contingent appropriation.....	Houston and Texas Central R'y	2 02
March 29.....	566	Mathematical department.....	R. F. Smith	60 00
.....	567	Board	Adeline Hill.....	106 99
.....	568	Medical attendance.....	J. D. Read	56 00
March 31.....	569	Expense.....	L. W. Clark	37 75
.....	570	Contingent appropriation.....	J. S. Brown & Co.....	4 73
.....	571	Mechanical appropriation.....	J. S. Brown & Co	6 45
.....	572	Agricultural appropriation.....	G. W. Curtis.....	6 00
.....	573	Chemical app opriation.....	James W. Queen & Co	215 49
.....	574	Agricultural appropriation.....	Tom Robinson.....	20 00
.....	575	Expense.....	J. R. Fisk.....	20 00
.....	576	Board	B. Sbisa.....	648 84
.....	577	Mechanical appropriation.....	P. E. Willman.....	50 00
.....	578	Expense	C. Siebert	20 00
.....	579	Agricultural department.....	L. F. Battle	5 25
.....	580	Agricultural appropriation.....	J. H. Suber, Jr.....	35 00
.....	581	Board	W. C. Boyett	246 05
.....	582	Agricultural department.....	G. W. Curtis	63 60
.....	583	Expense	A. Zdragil	20 00
.....	584	Agricultural department.....	Garth, Griffiths & Co	31 52
.....	585	Agricultural department.....	O. L. Tabor & Bro.....	66 36
.....	586	Agricultural appropriation.....	Cole Bros.....	150 09
.....	587	Agricultural department.....	A. Oswald.....	1 50
.....	588	Medical attendance.....	G. W. Norrell.....	22 30
.....	589	Agricultural department.....	G. W. Norrell	2 65
.....	590	Agricultural department.....	W. H. Webb.....	30
.....	591	Board	Carson, Sewall & Co.....	263 56
.....	592	Contingent appropriation.....	G. W. Norrell	15 10
.....	593	Chemical appropriation.....	Garth, Griffiths & Co	14 88
.....	594	Mechanical department.....	Garth, Griffiths & Co.....	2 92
.....	595	Contingent appropriation.....	Garth, Griffiths & Co	5 83
.....	596	Agricultural appropriation.....	Garth, Griffiths & Co.....	2 78
.....	597	Board	Ricker & Lee.....	17 70
.....	598	Agricultural appropriation.....	J. H. Suber.....	15 00
.....	599	Agricultural department.....	G. W. Curtis.....	11 75
.....	600	Agricultural appropriation.....	H. Kernole.....	12 04
.....	601	Chemical appropriation.....	H. Kernole.....	2 82
.....	602	Contingent appropriation.....	H. Kernole.....	8 29
.....	603	Board	H. Kernole.....	37 15
.....	604	Contingent appropriation.....	William Kopper.....	10 67
.....	605	Expenses.....	J. A. Myers.....	1 75
.....	606	Agricultural appropriation.....	Texas Tram and Lumber Co.....	100 70
.....	607	Hospital	Texas Tram and Lumber Co.....	213 39
.....	608	Agricultural department.....	Garth, Griffiths & Co.....	19 05
.....	609	Mechanical appropriation.....	W. J. Moore.....	26 00
.....	610	Mechanical appropriation.....	Houston Brick Works	260 00
.....	611	Expense	M. Strickland & Co.....	11 25
.....	612	Contingent appropriation.....	M. Strickland & Co	7 30
.....	613	Mechanical appropriation.....	J. E. Denton.....	928 66
.....	614	Chemical appropriation.....	J. S. Brown & Co.....	56 90
.....	615	Agricultural appropriation.....	J. H. Suber.....	100 00
.....	616	Chemical appropriation.....	Charles Fink.....	35 73
.....	617	Contingent appropriation.....	Charles Fink.....	36 58
.....	618	Agricultural appropriation.....	Matt Fitzgerald.....	16 00
.....	619	Agricultural appropriation.....	Matt Fitzgerald.....	20 00
.....	620	Agricultural appropriation.....	J. H. Suber	5 62
.....	621	Contingent appropriation.....	J. H. Suber	13 50
.....	622	Mathematical appropriation.....	W. & L. E. Greeley.....	180 85
.....	623	Chemical appropriation.....	Union Freight Line.....	7 36
.....	624	Agricultural appropriation.....	Coffman & Scott.....	183 00
.....	625	Board	Ricker & Lee.....	16 25
.....	626	Board	Cars n, Sewall & Co	11 25
.....	627	Hospital	P. C. Taylor.....	187 50
.....	628	Contingentp appropriation.....	Hazlett & Co.....	8 25
.....	629	Agricultural appropriation.....	J. H. Suber	105 60
.....	630	Personal	E. Muse.....	11 50
.....	631	Mechanical appropriation.....	F. Van Winkle.....	657 47
.....	632	Agricultural appropriation.....	W. P. Hardeman	2 10
.....	633	Board	Carson, Sewall & Co.....	316 73
.....	634	Agricultural department.....	W. H. Webb	1 50
.....	635	Mechanical appropriation.....	W. P. Hardeman	15 25
.....	635	Agricultural appropriation.....	W. P. Hardeman	9 10
.....	635	Hospital	W. P. Hardeman.....	18 50
.....	636	Contingent appropriation.....	Smith-Davis Manufacturing Co.....	2 30
.....	637	Medical attendance.....	J. D. Read	56 00
.....	638	Expense	J. R. Fisk	20 00
.....	639	Board	B. Sbisa.....	601 60

EXHIBIT A—continued.

Date.	Warrant No.	Account.	In favor of.	Amount.
.....	640	Agricultural appropriation.....	C. Wilson.....	\$2 50
.....	641	Board.....	Adeline Hill.....	100 05
.....	642	Board.....	Adeline Hill.....	6 00
.....	643	Expense.....	C. Siebert.....	20 00
.....	644	Agricultural department.....	G. W. Curtis.....	53 75
.....	645	Expense.....	A. Zdragil.....	20 00
.....	646	Repair mess hall.....	Charles Stewart.....	2 00
.....	647	Mathematical department.....	R. F. Smith.....	60 00
.....	648	Agricultural appropriation.....	J. Busby.....	12 00
.....	649	Mechanical appropriation.....	J. H. Suber.....	48 16
.....	650	Contingent appropriation.....	J. H. Suber.....	10 00
.....	651	Board.....	W. C. Boyett.....	194 77
.....	652	Agricultural appropriation.....	W. C. Boyett.....	7 50
.....	653	Mechanical appropriation.....	R. H. Whitlock.....	7 00
.....	654	Chemical appropriation.....	H. H. Dinwiddie.....	6 90
.....	655	Expense.....	H. H. Dinwiddie.....	1 80
.....	656	Mechanical appropriation.....	W. M. McGehee.....	140 00
.....	657	Mechanical appropriation.....	W. M. McGehee.....	50 32
.....	658	Mechanical appropriation.....	W. M. McGehee.....	12 25
.....	659	Repair professors' houses.....	W. M. McGehee.....	8 00
.....	660	Repair mess hall.....	W. M. McGehee.....	5 00
.....	661	Repair main building.....	W. M. McGehee.....	3 00
.....	662	Mechanical appropriation.....	W. M. McGehee.....	126 21
.....	663	Mechanical appropriation.....	T. P. Wooten.....	54 45
.....	664	Contingent appropriation.....	T. P. Wooten.....	11 50
.....	665	Agricultural appropriation.....	T. P. Wooten.....	22 40
.....	666	Agricultural appropriation.....	Wm. Hollaud.....	95 00
.....	667	Mechanical appropriation.....	R. F. Smith.....	15
.....	668	Agricultural appropriation.....	C. Wilson.....	7 00
.....	669	Mechanical appropriation.....	H. B. Chase.....	75 00
.....	670	Mathematical appropriation.....	Jas. W. Queen & Co.....	407 46
.....	671	Mechanical appropriation.....	Graydon-Denton Mfg. Co.....	529 17
.....	672	Board.....	Ricker & Lee.....	16 00
.....	673	Hospital.....	Chas. Humes & Co.....	18 69
.....	673	Mechanical appropriation.....	Chas. Humes & Co.....	32 82
.....	673	Contingent appropriation.....	Chas. Humes & Co.....	4 60
.....	674	Mechanical appropriation.....	J. S. Brown & Co.....	7 76
.....	675	Hospital.....	Village Mills Company.....	211 45
.....	676	Agricultural appropriation.....	F. F. Collins.....	100 00
.....	677	Mechanical appropriation.....	H. B. Works.....	390 00
.....	678	Chemical appropriation.....	J. S. Brown & Co.....	2 50
.....	679	Contingent appropriation.....	P. H. Hennessy.....	23 90
.....	680	Mechanical appropriation.....	Crowley & Walsh.....	90 60
.....	681	Contingent appropriation.....	G. W. Norrell.....	6 90
.....	682	Medical attendance.....	G. W. Norrell.....	8 75
.....	683	Personal.....	C. G. Lancaster.....	15 00
.....	684	Hospital.....	John Robb.....	100 00
.....	685	Mathematical department.....	R. F. Smith.....	60 00
.....	686	Contingent appropriation.....	C. L. Kaufer.....	1 50
.....	687	Agricultural appropriation.....	M. Bunneville.....	5 00
.....	688	Chemical appropriation.....	Jas. W. Queen & Co.....	196 00
.....	689	Agricultural appropriation.....	C. Wilson.....	2 50
.....	690	Mechanical appropriation.....	H. B. Chase.....	65 00
.....	691	Contingent appropriation.....	H. & T. C. Ry.....	3 75
.....	692	Medical attendance.....	J. D. Read.....	56 00
.....	693	Mechanical appropriation.....	H. Herndon.....	75
.....	694	Agricultural department.....	G. W. Curtis.....	74 87
.....	695	Agricultural appropriation.....	J. H. Suber.....	33 00
.....	696	Mechanical appropriation.....	R. H. Whitlock.....	41 25
.....	697	Mechanical appropriation.....	H. B. Chase.....	75 00
.....	698	Board.....	B. Shisa.....	481 70
.....	699	Expense.....	J. R. Fisk.....	20 00
.....	700	Board.....	Adeline Hill.....	35 25
.....	701	Board.....	Adeline Hill.....	59 30
.....	702	Agricultural appropriation.....	B. Brixley.....	14 00
.....	703	Agricultural appropriation.....	S. McKnight.....	3 00
.....	704	Agricultural appropriation.....	Wm. Koppe.....	4 38
.....	705	Mechanical appropriation.....	Wm. Koppe.....	2 50
.....	706	Mechanical appropriation.....	A. Bering & Bro.....	284 49
.....	707	Contingent appropriation.....	G. W. Norrell.....	29 99
.....	708	Board.....	Ricker & Lee.....	41 60
.....	709	Agricultural appropriation.....	Cole Bros.....	300 90
.....	710	Mechanical appropriation.....	Cole Bros.....	78 62
.....	711	Board.....	Carson, Sewall & Co.....	153 43
.....	712	Mechanical appropriation.....	Wiggin & Simpson.....	129 79
.....	713	Contingent appropriation.....	W. W. Hanway.....	3 00
.....	714	Agricultural department.....	W. W. Hanway.....	1 25
.....	715	Agricultural department.....	Garth, Griffiths & Co.....	12 50

EXHIBIT A—continued.

Date.	Warrant No.	Account.	In favor of.	Amount.
	716	Mechanical appropriation.....	Garth, Griffiths & Co.....	\$21 04
	717	Chemical appropriation.....	H. & T. C. Rv.....	1 13
	718	Medical attendance.....	G. W. Norrell.....	8 95
	719	Board.....	Mrs. F. Boyett.....	10 86
	720	Board.....	W. C. Boyett.....	253 57
	721	Repair mess hall.....	J. A. Gregg.....	7 50
	722	Mechanical appropriation.....	R. H. Whitlock.....	28 37
	723	Mechanical appropriation.....	R. H. Whitlock.....	12 00
	724	Agricultural appropriation.....	J. Chapman.....	9 00
	725	Contingent appropriation.....	R. Baptiste.....	6 60
	726	Hospital.....	J. H. Suber.....	8 47
	727	Agricultural appropriation.....	T. P. Wooten.....	89 25
	728	Mechanical appropriation.....	H. B. Chase.....	48 30
	729	Mechanical appropriation.....	H. B. Chase.....	65 00
	730	Agricultural appropriation.....	J. H. Suber.....	20 00
	731	Board.....	H. Kernole.....	59 09
	732	Contingent appropriation.....	H. Kernole.....	5 20
	733	Contingent appropriation.....	T. P. Wooten.....	25 00
	734	Board.....	F. F. Hooper.....	9 38
	735	Contingent appropriation.....	O. Locatone.....	22 00
	736	Agricultural department.....	A. Hudson.....	25 00
	737	Medical appropriation.....	R. H. Whitlock.....	2 90
	738	Agricultural appropriation.....	Q. T. Fuller.....	8 25
	739	Board.....	Sewell & Co.....	21 55
	740	Contingent appropriation.....	Garth, Griffiths & Co.....	44
	741	Hospital.....	W. P. Hardeman.....	7 30
	742	Expense.....	H. H. Dinwiddie.....	100 00
	743	Repair mess hall.....	J. F. Dumble.....	7 25
	744	Board.....	Carson, Sewall & Co.....	28 35
	745	Mathematical appropriation.....	W. & L. E. Greeley.....	9 35
	746	Mathematical department.....	R. E. Smith.....	60 00
	747	Hospital.....	John Robb.....	200 00
	748	Hospital.....	John Robb.....	50 00
	749	Mechanical appropriation.....	R. Peterson.....	20 00
	750	Mechanical appropriation.....	Carson, Sewall & Co.....	38 48
	751	Medical attendance.....	G. W. Norrell.....	2 75
	752	Contingent appropriation.....	G. W. Norrell.....	13 76
	753	Agricultural appropriation.....	Wm. Koppe.....	1 00
	754	Mechanical appropriation.....	G. W. Norrell.....	13 00
	755	Repair mess hall.....	Wm. Koppe.....	50
	756	Mechanical appropriation.....	Cole Bros.....	6 87
	757	Contingent appropriation.....	Cole Bros.....	80
	758	Mechanical appropriation.....	W. J. Moore.....	9 25
	759	Hospital.....	W. J. Moore.....	15 00
	760	Board.....	W. C. Boyett.....	99 02
	761	Board.....	Mrs. F. Boyett.....	18 07
	762	Medical attendance.....	J. D. Read.....	65 00
	763	Board.....	F. F. Hooper.....	11 90
	764	Board.....	B. Sbisla.....	453 31
	765	Board.....	Adeline Hill.....	72 45
	766	Mechanical appropriation.....	H. B. Chase.....	37 60
	767	Repair professors' houses.....	H. B. Chase.....	1 50
	768	Contingent appropriation.....	H. B. Chase.....	2 00
	769	Mechanical appropriation.....	H. B. Chase.....	48 70
	770	Mechanical appropriation.....	R. H. Whitlock.....	10 87
	771	Mechanical appropriation.....	P. E. Willman.....	27 50
	772	Repair main building.....	O. Locatone.....	5 00
	773	Mechanical appropriation.....	F. Van Winkle.....	75 73
	774	Mechanical appropriation.....	R. H. Whitlock.....	29 25
	775	Mechanical appropriation.....	S. H. Walker.....	10 00
	776	Mechanical appropriation.....	W. M. Dodson.....	10 00
	777	Agricultural appropriation.....	J. H. Suber.....	60 80
	778	Agricultural department.....	G. W. Curtis.....	39 50
	779	Board.....	Carson, Sewall & Co.....	27 85
	780	Board.....	H. Kernole.....	50 77
June 1, 1884,	1	Mechanical department.....	R. H. Whitlock.....	23 99
to Jan 5, '85	2	Contingent appropriation.....	J. H. Suber.....	19 57
	3	Agricultural department.....	G. W. Curtis.....	34 90
	4	Mechanical department.....	Dodson & Walker.....	23 00
	5	Board.....	B. Sbisla.....	158 85
	6	Agricultural department.....	G. W. Curtis.....	36 00
	7	Contingent appropriation.....	B. Sbisla.....	27 50
	8	Agricultural department.....	L. T. Fuller.....	24 30
	9	Mechanical department.....	Wiggin & Simpson.....	82 74
	10	Mechanical department.....	C. Humes & Co.....	80
	11	Contingent appropriation.....	Brazos Pilot.....	2 00
	12	Expense.....	Brazos Pilot.....	21 00
	13	Agricultural department.....	Brazos Pilot.....	32 00

EXHIBIT A—continued.

Date.	Warrant No.	Account.	In favor of.	Amount.
	14	Mechanical department.....	Bob Brixley.....	\$40 00
	15	Expense.....	L. L. McInnis.....	18 00
	16	Chemical department.....	J. W. Queen & Co.....	66 47
	17	Mechanical department.....	Crowley & Walsh.....	31 37
	17	Cistern.....	Crowley & Walsh.....	31 38
	18	Contingent appropriation.....	C. M. Goad.....	2 00
	19	Expense.....	W. R. Cavitt.....	35 00
	20	Mechanical department.....	F. Palsfoot.....	10 00
	21	Contingent appropriation.....	J. H. Suber.....	2 00
	22	Expense.....	G. Dunlap.....	30 00
	23	Board.....	T. Lineas.....	25 00
	24	Mechanical department.....	F. Palsfoot.....	10 00
	25	Contingent appropriation.....	J. Robb.....	25 00
	26	Mechanical department.....	F. Palsfoot.....	50 00
	27	Board.....	J. H. Suber.....	56 00
	28	Board.....	G. Cheewoff.....	14 50
	29	Expense.....	Brazos Pilot.....	5 00
	30	Board.....	Clarke & Co.....	27 93
	31	Board.....	J. H. Suber.....	72 65
	32	Mechanical department.....	F. Palsfoot.....	5 00
	33	Contingent appropriation.....	F. Palsfoot.....	2 00
	34	Cistern.....	F. Palsfoot.....	78 50
	35	Board.....	A. Georger.....	10 00
	36	Board.....	T. Lineas.....	25 00
	37	Board.....	J. H. Suber.....	46 50
	38	Expense.....	Sealy & Early.....	13 39
	39	Board.....	J. H. Suber.....	51 15
	40	Expense.....	W. P. Hardeman.....	18 90
	41	Contingent appropriation.....	G. W. Curtis.....	66 11
	42	Expense.....	G. W. Curtis.....	30 75
	43	Expense.....	Galveston News.....	36 50
	44	Expense.....	C. DeMorse.....	10 00
	45	Expense.....	Brenham Banner.....	6 00
	46	Expense.....	Loving Publishing Company.....	58 36
	47	Board.....	Sam Hoffman.....	13 27
	48	Expense.....	Sam Hoffman.....	8 40
	49	Board.....	J. H. Suber.....	24 40
	50	Agricultural department.....	G. W. Curtis.....	102 00
	51	Mechanical department.....	A. Harbers.....	120 00
	52	Board.....	B. Slisa.....	76 07
	53	Mechanical department.....	Bob Brixley.....	12 00
	54	Contingent appropriation.....	Bob Brixley.....	28 00
	55	Contingent appropriation.....	M. M. Wilcox.....	6 88
	56	Bookstore.....	L. L. McInnis.....	5 48
	57	Contingent appropriation.....	J. S. Brown & Co.....	5 23
	58	Contingent appropriation.....	J. S. Brown & Co.....	4 47
	59	Expense.....	Texas Post.....	25 00
	60	Expense.....	Houston Post Publishing Co.....	31 20
	61	Expense.....	Fort Worth Publishing Co.....	16 08
	62	Board.....	J. F. Dumble.....	95 80
	63	Agricultural department.....	W. W. Hauway & Son.....	3 45
	64	Agricultural department.....	Wm. Koppe.....	5 50
	65	Contingent appropriation.....	W. B. Morse.....	4 00
	66	Mechanical department.....	Wm. Koppe.....	15 65
	66	Contingent appropriation.....	W. Koppe.....	3 75
	67	Expense.....	Lottman Bros.....	171 68
	68	Board.....	Ricker & Lee.....	32 00
	69	Contingent appropriation.....	Wm. Koppe.....	7 60
	70	Board.....	Wm. Koppe.....	34 95
	71	Bookstore.....	L. S. Nichols.....	33 60
	72	Expense.....	J. D. Read.....	40 85
	73	Expense.....	R. F. Smith.....	77 20
	74	Board.....	H. Kernole.....	147 45
	75	Board.....	Carson, Sewall & Co.....	536 29
	76	Expense.....	L. L. McInnis.....	3 21
	77	Agricultural department.....	Ahrenbeck Bros.....	92 80
	78	Bookstore.....	Ivion, Blakeman, Taylor & Co.....	26 60
	79	Expense.....	Brazos Pilot.....	307 50
	80	Expense.....	Holland & Knox.....	10 00
	81	Expense.....	Gonzales Inquirer.....	6 00
	82	Board.....	J. A. Foreman.....	17 90
	83	Agricultural department.....	L. F. Fuller.....	2 00
	84	Agricultural department.....	H. Kernole.....	7 10
	85	Personal.....	J. A. Baker.....	32 50
	86	Mechanical department.....	F. Van Winkle.....	74 87
	87	Cistern.....	M. Bonneville.....	9 07
	88	Expense.....	H. H. Dinwiddie.....	25 00
	89	Expense.....	H. H. Dinwiddie.....	24 58

EXHIBIT A—continued.

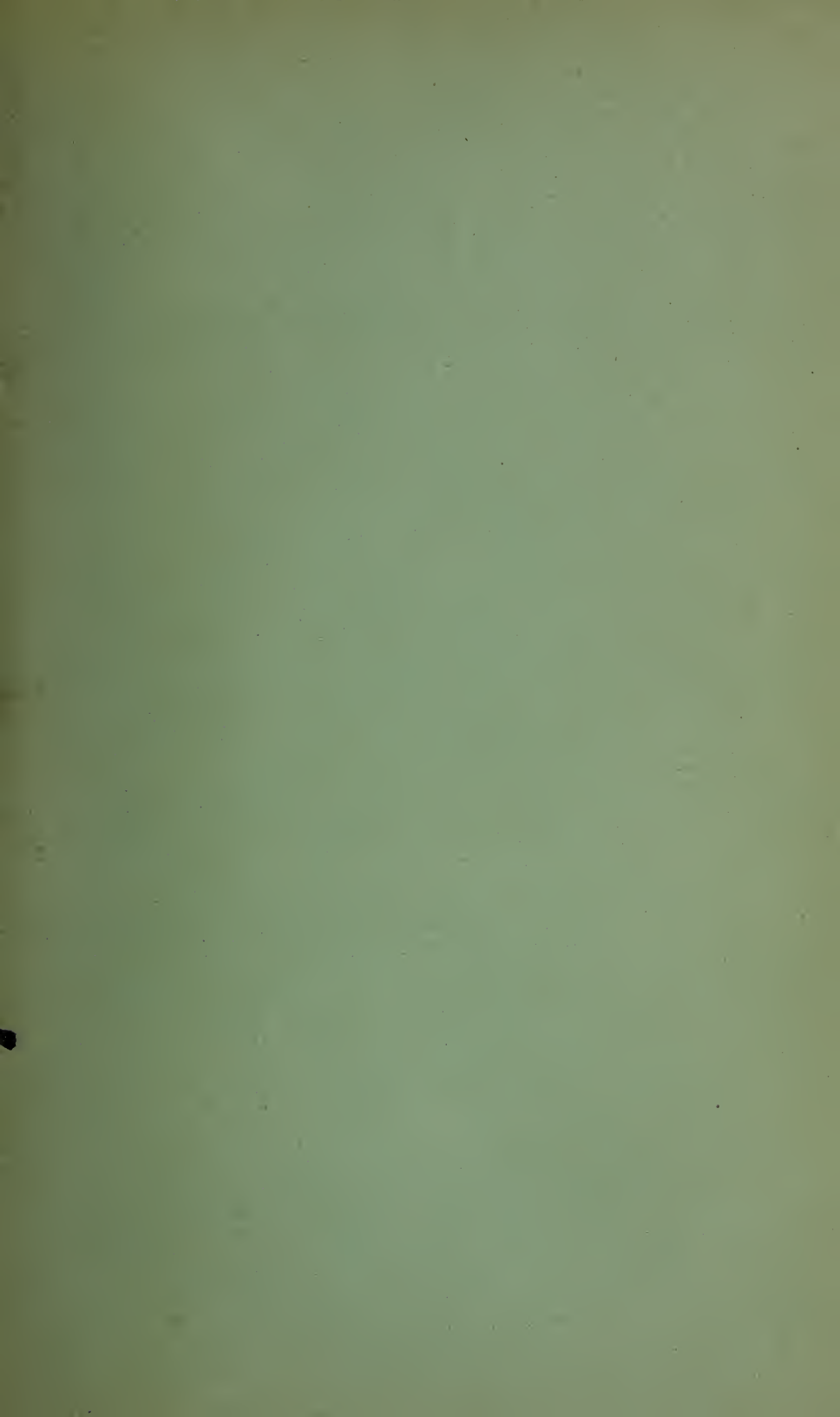
Date.	Warrant No.	Account.	In favor of.	Amount.
	90	Chemical department.....	H. H. Dinwiddie.....	\$1 75
	91	Expense.....	L. L. McInnis.....	12 20
	92	Contingent appropriation.....	F. Polsoot.....	30 00
	93	Board.....	J. H. Suber.....	55 80
	94	Expense.....	W. L. Bringham.....	6 10
	95	Board.....	J. Parks.....	25 50
	96	Expense.....	J. F. Dunable.....	27 35
	97	Board.....	A. L. & W.....	23 50
	98	Board.....	H. B. Chase.....	26 40
	99	Board.....	H. B. Chase.....	4 50
	100	Expense.....	New Braunfels Post.....	10 00
	101	Bookstore.....	Grin, Heath & Co.....	67 83
	102	Expense.....	San Antonio Express.....	25 00
	103	Bookstore.....	H. H. Dinwiddie.....	2 00
	104	Bookstore.....	R. F. Smith.....	3 20
	105	Board.....	W. D. Cleveland.....	20 07
	106	Bookstore.....	Orange Judd Co.....	21 86
	107	Bookstore.....	Wilkins & Adey.....	51 40
	108	Expense.....	Dallas Herald.....	20 00
	109	Agricultural department.....	American Berkshire Record.....	3 00
	110	Bookstore.....	H. C. Baird & Co.....	23 70
	111	Expense.....	Bastrop Advertiser.....	7 50
	112	Bookstore.....	Univ. Pub. Co.....	23 04
	113	Expense.....	R. F. Smith.....	75 00
	114	Board.....	J. S. Brown & Co.....	19 85
	115	Chemical department.....	Wm. Koppe.....	26 38
	116	Board.....	W. D. Cleveland.....	18 74
	117	Personal.....	W. L. Connally.....	32 50
	118	Board.....	B. Sbis-a.....	398 63
	119	Board.....	B. Sbis-a.....	150 00
	120	Board.....	W. C. Boyett.....	294 65
	121	Expense.....	J. R. Fisk.....	20 00
	122	Medical attendance.....	J. R. Read.....	60 00
	123	Expense.....	Hortsmain & Co.....	5 12
	124	Expense.....	A. Zdrasil.....	60 00
	125	Board.....	J. Parks.....	75 00
	126	Contingent appropriation.....	J. Parks.....	6 00
	127	Agricultural department.....	G. W. Curtis.....	65 00
	128	Board.....	J. H. Suber.....	38 75
	129	Contingent appropriation.....	W. Koppe.....	1 20
	130	Contingent appropriation.....	L. L. McInnis.....	55 00
	131	Board.....	W. Koppe.....	12 95
	132	Mechanical department.....	W. Koppe.....	3 70
	133	Expense.....	Victoria Advocate.....	10 00
	134	Board.....	A. Hill.....	123 00
	135	Board.....	H. G. Koester.....	21 00
	136	Expense.....	C. Siebert.....	20 00
	137	Board.....	S. H. Franklin.....	28 09
	138	Contingent appropriation.....	Crowley & Walsh.....	19 27
	139	Chemical department.....	H. H. Dinwiddie.....	4 25
	140	Board.....	W. D. Cleveland.....	281 56
	141	Expense.....	W. D. Cleveland.....	4 40
	142	Board.....	H. Kernole.....	120 79
	143	Expense.....	W. Kernole.....	12 35
	144	Agricultural department.....	G. W. Norrell.....	7 95
	145	Expense.....	Bryan Postoffice.....	1 00
	146	Bookstore.....	Ivison, Blakemar & Co.....	7 95
	147	Agricultural department.....	Houston Barrel Factory.....	55 05
	148	Agricultural department.....	Pittman & Co.....	226 07
	149	Expense.....	S. Hoffman.....	2 34
	150	Expense.....	Laredo Times.....	11 00
	151	Mechanical department.....	G. W. Norrell.....	13 88
	152	Board.....	G. W. Norrell.....	2 30
	153	Expense.....	G. W. Norrell.....	9 95
	154	Personal.....	B. M. Boles.....	19 50
	155	Board.....	J. F. Caldwell & Co.....	99 60
	156	Board.....	J. S. Brown & Co.....	21 55
	157	Agricultural department.....	Ripley & Kimball.....	261 09
	158	Expense.....	R. H. Whittock.....	25 00
	159	Agricultural department.....	W. Koppe.....	21 32
	160	Agricultural department.....	O. P. Wooten.....	14 99
	161	Board.....	Bob Brixley.....	20 00
	162	Personal.....	C. C. McLendon.....	5 00
	163	Contingent appropriation.....	L. L. McInnis.....	64 50
	164	Contingent appropriation.....	Phillip Prazil.....	6 91
	165	Personal.....	D. J. Brady.....	5 00
	166	Board.....	R. Flach.....	3 50
	167	Personal.....	G. C. Stoneham.....	5 00

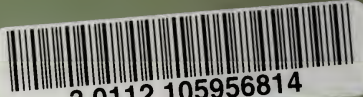
EXHIBIT A—continued.

Date.	Warrant No.	Account.	In favor of.	Amount.
	168	Personal	G. S. Beaty	\$5 00
	169	Bookstore	Grin, Heath & Co	62 78
	170	Board	L. L. McInnis	44 61
	171	Bookstore	L. L. McInnis	4 60
	172	Mechanical department	Otto Brantz	2 00
	173	Expense	M. Strickland & Co.	8 35
	174	Mechanical department	Wiggin & Simpson	6 25
	175	Agricultural department	P. E. Willman	40 00
	176	Contingent appropriation	S. Smith	50
	177	Personal	J. H. Butcher	8 20
	178	Personal	G. W. Johnson	7 20
	179	Bookstore	Wilkins & Adey	19 20
	180	Bookstore	H. H. Dinwiddie	3 30
	181	Bookstore	Grin, Heath & Co	3 24
	182	Agricultural department	G. W. Curtis	5 40
	183	Agricultural department	Ripley & Kimball	1 75
	184	Board	W. D. Cleveland	349 21
	185	Board	Bryan Ice Company	26 00
	186	Agricultural department	Iowa Agricultural College	350 00
	187	Expense	J. R. Fisk	23 00
	188	Board	B. Sbisá	420 54
	189	Board	A. Hill	15 00
	190	Board	A. Hill	10 00
	191	Board	A. Hill	143 68
	192	Medical attendance	J. D. Read	75 00
	193	Board	B. Sbisá	150 00
	194	Board	J. H. Suber	22 05
	195	Board	W. C. Boyett	247 74
	196	Expense	A. Zdrážil	20 00
	197	Expense	H. H. Dinwiddie	35 25
	198	Agricultural department	W. J. Moore	9 00
	199	Personal	J. W. Hewett	14 00
	200	Expense	C. Siebert	20 00
	201	Personal	S. J. Cundiff	5 00
	201½	Board	W. D. Cleveland	49 45
	202	Agricultural department	J. S. Brown & Co	54 65
	203	Board	Fulkerson & Lawrence	21 66
	204	Board	J. F. Caldwell & Co.	15 27
	205	Bookstore	J. B. & Co.	5 71
	206	Agricultural department	W. Koppe	4 73
	207	Agricultural department	G. W. Curtis	54 00
	208	Agricultural department	G. W. Curtis	10 10
	209	Contingent appropriation	S. Sbisá	9 66
	210	Contingent appropriation	R. M. Smith & Co.	4 00
	211	Board	J. S. Brown & Co.	21 90
	212	Mechanical department	Fulkerson & Lawrence	30 43
	213	Board	Wm. Koppe	2 20
	214	Expense	Geo. Dunble	13 75
	215	Contingent appropriation	J. F. Meyer	12 05
	216	Board	H. Kernole	59 50
	217	Mechanical department	Wm. Koppe	1 20
	218	Mechanical department	Wm. Koppe	40
	219	Mechanical department	R. H. Whitlock	6 35
	220	Expense	G. W. Norrell	13 85
	221	Bookstore	W. P. Hardman	1 80
	222	Agricultural department	G. W. Norrell	2 15
	223	Agricultural department	R. M. Smith & Co.	10 10
	224	Expense	L. L. McInnis	2 50
	225	Board	R. Flach	3 50
	226	Agricultural department	Fairbanks & Co.	92 60
	227	Expense	J. S. Fowlkes & Co.	28 55
	228	Contingent appropriation	J. S. Suber	7 50
	229	Personal	W. R. Blanchard	5 00
	230	Agricultural department	W. C. Weedan	800 00
	231	Agricultural department	J. W. Muncey	450 00
	232	Bookstore	L. L. McInnis	2 80
	233	Chemical department	W. D. Cleveland	4 75
	234	Mechanical department	R. H. Whitlock	3 00
	235	Board	W. D. Cleveland	17 38
	236	Bookstore	J. B. O. & Co.	4 00
	237	Board	Bryan Ice Co.	14 63
	238	Board	W. Koppe	1 80
	239	Board	J. S. Fowlkes & Co.	4 35
	240	Agricultural department	R. M. Smith & Co.	16 90
	241	Agricultural department	G. H. Randle & Co.	810 37
	242	Board	J. S. Brown & Co.	3 90
	243	Mechanical department	F. Van Winkle	54 07
	244	Mechanical department	J. S. Brown & Co.	7 25

EXHIBIT A—continued.

Date.	Warrant No.	Account.	In favor of.	Amount.
	245	Expense.....	Geo. Dumble.....	\$6 94
	246	Agricultural department.....	L. F. Fuller.....	2 80
	247	Board.....	W. D. Cleveland.....	159 60
	248	Bookstore.....	Grin, Heath & Co.....	28 35
	249	Agricultural department.....	H. P. Stacey.....	110 00
	250	Medical attendance.....	J. D. Read.....	75 00
	251	Board.....	A. Hill.....	93 00
	252	Expense.....	J. R. Fisk.....	23 30
	253	Expense.....	D. Zdrazil.....	20 00
	254	Expense.....	C. Siebert.....	20 00
	255	Board.....	W. C. Boyett.....	230 86
	256	Board.....	B. Sbisa.....	480 97
	257	Board.....	B. Sbisa.....	150 00
	258	Board.....	H. G. Koester.....	10 00
	259	Agricultural department.....	C. H. Dana.....	18 55
	260	Agricultural department.....	G. W. Curtis.....	73 10
	261	Contingent appropriation.....	G. W. Hoppe.....	2 35
	262	Board.....	G. H. Pfeuffer.....	195 00
	263	Agricultural department.....	H. P. Stacey.....	75 00
	264	Board.....	H. Kernole.....	300 08
	265	Agricultural department.....	W. W. Hanway.....	33 25
	266	Agricultural department.....	T. P. Wooten.....	12 82
	267	Agricultural department.....	W. Koppe.....	8 11
	268	Agricultural department.....	J. S. Fowlkes & Co.....	143 30
	269	Contingent appropriation.....	Bob Brixley.....	40 00
	270	Board.....	J. S. Fowlkes & Co.....	57 00
	271	Board.....	L. Doyle.....	26 40
	272	Board.....	J. R. Smith.....	5 00
	273	Agricultural department.....	G. D. Rahl.....	23 33
	274	Agricultural department.....	G. W. Curtis.....	16 00
	275	Agricultural department.....	H. Kernole.....	8 50
	276	Personal.....	F. W. Moore.....	19 00
	277	Agricultural department.....	Texas Transportation & Lumber Co.....	660 71
	278	Mechanical department.....	W. Koppe.....	19 10
	279	Expense.....	R. F. Smith.....	180 00
	280	Personal.....	F. Caruthers.....	4 20
	281	Agricultural department.....	H. P. Stacey.....	125 00
	282	Agricultural department.....	P. Greig.....	106 78
	283	Medical attendance.....	J. D. Read.....	75 00
	284	Board.....	A. Hill.....	87 30
	285	Agricultural department.....	J. S. Brown & Co.....	5 70
	286	Agricultural department.....	A. L. Flint.....	2 00
	287	Board.....	Thruher, Wayland & Co.....	851 28
	288	Board.....	W. D. Cleveland.....	58 86
	289	Expense.....	Brazos Pilot.....	6 50
	290	Chemical department.....	W. D. Cleveland.....	5 75
	291	Agricultural department.....	G. W. Curtis.....	105 50
	292	Expense.....	J. R. Fisk.....	23 00
	293	Agricultural department.....	H. P. Stacey.....	60 00
	294	Agricultural department.....	L. M. R. Manufacturing Co.....	23 78
	295	Agricultural department.....	A. Dickinson.....	55 93
	296	Agricultural department.....	G. W. Norrell.....	31 74
	297	Agricultural department.....	W. Koppe.....	34 77
	298	Contingent appropriation.....	Bob Brixley.....	15 00
	299	Board.....	B. Sbisa.....	150 00
	300	Board.....	B. Sbisa.....	297 10
	301	Expense.....	Sam Hoffman.....	4 50
	302	Expense.....	C. Siebert.....	20 00
	303	Expense.....	D. Zdrazil.....	20 00
	304	Agricultural department.....	H. P. Stacey.....	100 00
	305	Board.....	H. Kernole.....	94 67
	306	Expense.....	Smallwood & Gray.....	4 00
	307	Board.....	D. Humphrey.....	5 60
	308	Board.....	W. D. Cleveland.....	109 03





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